
**MANUAL FOR
THE PISA 2000 DATABASE**

OECD

ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

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WHAT IS THE GENERAL STRUCTURE OF THE INTERNATIONAL DATABASE?

This document describes the international database of the OECD Programme for International Student Assessment (PISA) 2000. The database comprises data collected in 2000 in 32 countries and processed in the second half of 2000 and in 2001. The first results were released in December 2001 (for the full set of results see OECD, 2001).

The purpose of this document is to provide all of the necessary information to analyse the data in accordance with the methodologies used to collect and process the data. It does not provide detailed information regarding these methods. In addition, a list of related publications can be found in the “Further Reading” section at the end of this document.

The following sources can provide additional information about PISA:

- The **PISA Web page** (www.pisa.oecd.org): i) it provides descriptions about the programme, contact information, participating countries and results of PISA 2000, ii) it allows users to download the complete micro-level database, all questionnaires, publications, national reports and the media cover of PISA 2000, and iii) it provides an opportunity for users to generate their own tables or request specific ones.
- The publication **Knowledge and Skills for Life - First Results from PISA 2000** (OECD, 2001) includes the first results from PISA 2000. It presents evidence on student performance in reading, mathematical and scientific literacy, reveals factors that influence the development of these skills at home and at school, and examines what the implications are for policy development.
- The publication **Sample Tasks from the PISA 2000 Assessment - Reading, Mathematical and Scientific Literacy** (OECD, 2002) describes the instruments underlying the PISA assessment. It introduces the PISA approach to assessing reading, mathematical and scientific literacy with its three dimensions of processes, content and context. Further it presents tasks from the PISA 2000 assessment together with how these tasks were scored and how they relate to the conceptual framework underlying PISA.
- The publication **PISA 2000 Technical Report** (OECD, 2002) presents the methodology and procedures used in PISA.

The database provides detailed information on all instruments used in PISA 2000 for the following countries:

- OECD Member Countries: Australia, Austria, Belgium, Canada, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Korea, Luxembourg, Mexico, the Netherlands, New Zealand, Norway, Poland, Portugal, Spain, Sweden Switzerland, the United Kingdom, and the United States.
- OECD Non-Member Countries: Brazil, Latvia, Liechtenstein, and the Russian Federation.

WHICH INSTRUMENTS WERE INCLUDED IN PISA 2000?

Test design

In PISA 2000, a rotated test design was used to assess student performance in reading, mathematical and scientific literacy (for the complete conceptual frameworks see OECD, 1999b and OECD, 2000). This type of test design ensures a wide coverage of content while at the same time keeping the testing burden on individual students low. Nine test booklets were distributed at random to students. These booklets included questions assessing reading literacy, mathematical literacy and scientific literacy, but not all booklets assessed the same domains. Students were randomly assigned a testing booklet within each of the sampled schools.

- Booklets 8 and 9 contained reading, mathematics and science questions;
- Booklets 1, 3 and 5 contained reading and mathematics questions;
- Booklets 2, 4 and 6 contained reading and science questions; and,
- Booklet 7 contained only reading questions.

As PISA used an age-based sample and sought to be as inclusive as possible, an additional booklet, called *Special Education* (SE, referred to in the database as booklet 0), was developed primarily to assess students who attend special schools, in order to include as many as possible of the 15-year-old students in each country. This special education booklet contained questions assessing the domains of mathematics, reading and science, with a lower difficulty level. This booklet was used in a limited number of countries where the proportion of 15-year-old students in special schools or primary schools was relatively high and it was assigned to all students in these schools.

Questionnaires

Student questionnaires

A [student questionnaire](#) was designed to collect information about the student's family, home environment, reading habits, school and everyday activities. This information was later analysed both independently and in relation to performance.

Additionally, the programme included two additional optional questionnaires for students. The first one was a [cross curriculum competencies questionnaire](#) asking about students' strategies of self-regulated learning, motivational preferences and self-concept, used in 26 out of the 32 countries. The second one was a [computer familiarity questionnaire](#), including questions about students' use of computers, the availability of computers, and students' self-assessment of their computer skills. This was used in 20 out of the 32 countries.

School questionnaire

The principals or head administrators of the participating schools responded to a [school questionnaire](#) covering issues such as the demographics of the school, school staffing, the school environment, human and material educational resources in the school, selection and transfer policies, and educational and decision-making practices in the school.

Structure of the testing session

The student testing session consisted of:

- two 60-minute sessions assessing reading, mathematical and scientific literacy;
- 20-30 minutes for the [student questionnaire](#);
- 10 minutes for the international option of [cross curriculum competencies questionnaire](#); and
- 5 minutes for the international option of [computer familiarity questionnaire](#).

The school principal or head administrator answered a 20-30 minute [school questionnaire](#).

WHAT IS AVAILABLE FROM THE PISA 2000 INTERNATIONAL DATABASE?

What is available for downloading?

The downloadable files are classified into six categories. Some of them are quite small, while others (*e.g.*, the micro-level data files) are quite large, taking a long time to download. The six categories of file are:

Questionnaires

The following questionnaires are available: [student questionnaire](#), [cross curriculum competencies questionnaire](#), [computer familiarity questionnaire](#) and [school questionnaire](#). Appendices 1 to 4 of this document show these questionnaires, with the variable name of each item in the left-hand margin. For example:

ST03Q01	Q 3 Are you <female> or <male>?	<Female>	<Male>
		<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

Codebooks

The [codebooks](#) are useful in relating the actual items from the instruments (assessment tests or questionnaires) to the data available in the data files as they identify the variable name with all possible values which are valid for that variable. In addition to the name of the variable, they also show its label, all possible responses (code and label), type of variable (*e.g.* string or numeric) and the columns where the values are shown in the actual data file. Three codebooks are available: the [student questionnaire data file codebook](#), the [school questionnaire codebook](#), and the [student test data codebook](#). For example, in the case of the previous item (ST03Q01), the codebook shows:

ST03Q01	Sex – Q3	F(1.0)	29-29
	1 Female		
	2 Male		
	7 N/A		
	8 M/R		
	9 Mis		

SAS® Control files

These files will read the raw text file, and convert it into a [SAS®](#) data file assigning label and values (valid and missing). The five SAS® control files will read and convert: the school questionnaire file, the student questionnaire and reading performance file, the student questionnaire and mathematics performance file, the student questionnaire and science performance file, and finally the assessment file. These files have extension *.SAS.

SPSS® Control files

Similarly to the SAS® control files, these files will read the raw text file, and convert it into a [SPSS®](#) data file assigning labels and values (valid and missing). The five SPSS® control files will read and convert: the school questionnaire file, the student questionnaire and reading performance, the student questionnaire and mathematics performance, the student questionnaire and science performance, and finally, the assessment file. The files have extension *.SPS.

Data files in text format

The item by item database is available in text format, which once read by the SAS® or SPSS® control files will be correctly formatted and labelled. As it is, it includes one row for each student with his or her responses to all items. These files have extension *.TXT and are in ASCII form.

Compendia

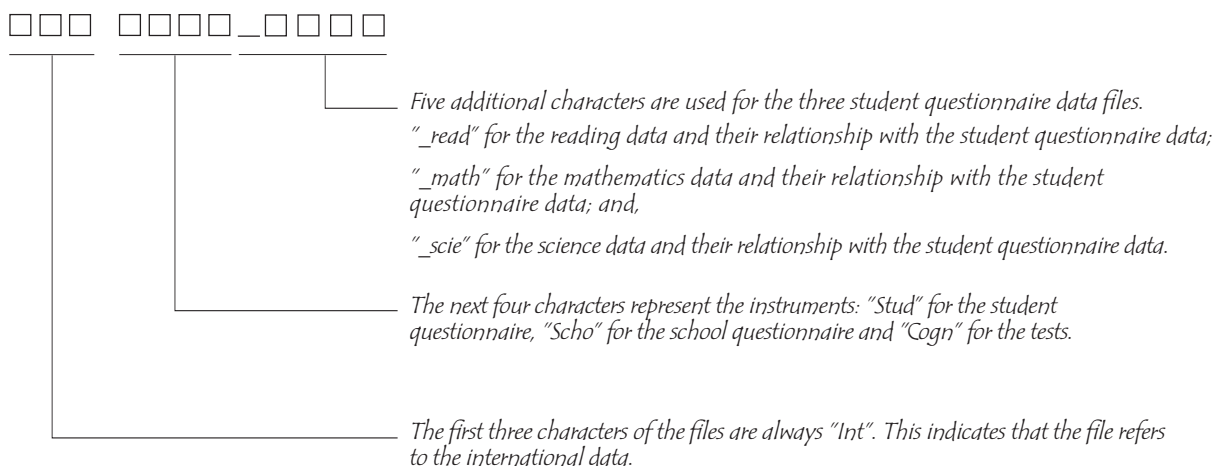
[Compendia](#) show the full item by country results for the three student questionnaires, the school questionnaire and the students' performance. The following files are available: i) student compendium and reading performance, ii) student compendium and mathematics performance, iii) student compendium and science performance, iv) school compendium and reading performance, v) school compendium and mathematics performance, vi) school compendium and science performance, and vii) the test item compendium. There are two types of data for each item: percentages by categories and performance by categories. Standard errors are also reported for the percentages and for the literacy means.

WHICH FILES ARE INCLUDED IN THE PISA 2000 INTERNATIONAL DATABASE?

The PISA international database consists of **five data files**. The files are in text (or ASCII) format and are accompanied by the corresponding SAS® and SPSS® control (syntax) files, which can be used to read the text into a SAS® or SPSS® database. Besides the data collected through the international questionnaire, some countries collected data through national options, which are not included in the international database. These files are quite large as they include one record for each student or school.

How are the files named?

The data files in the international database are named according to the following convention:



The student files

Student and reading performance data files (filename: intstud_read.txt)

For each student who participated in the assessment, the following information is available:

- Identification variables for the country, school and student.
- The student responses on the three questionnaires, *i.e.*, the [student questionnaire](#) and the two international options: [computer familiarity questionnaire](#) and [cross curriculum competencies questionnaire](#).
- The [students' indices](#) derived from the original questions in the questionnaires.
- The students' performance scores in reading.
- The [student weights](#) and a country adjustment factor for the reading weights.
- The 80 reading [Fay's replicates](#) for the computation of the sampling variance estimates.

Student and mathematics performance data files (filename: intstud_math.txt)

For each student who was assessed with one of the booklets that contain mathematics material, the following information is available:

- Identification variables for the country, school and student.
- The student responses on the three questionnaires, *i.e.*, the [student questionnaire](#) and the two international options: [computer familiarity questionnaire](#) and [cross curriculum competencies questionnaire](#).
- The [students' indices](#) derived from the original questions in the questionnaires.
- The students' performance scores in reading and mathematics.
- The [student weights](#) and a country adjustment factor for the mathematics weights.
- The 80 reading [Fay's replicates](#) for the computation of the sampling variance estimates.

Student and science performance data files (filename: intstud_scie.txt)

For each student who was assessed with one of the booklets that contain science material, the following information is available:

- Identification variables for the country, school and student.
- The student responses on the three questionnaires, *i.e.*, the [student questionnaire](#) and the two international options: [computer familiarity questionnaire](#) and [cross curriculum competencies questionnaire](#).
- The [students' indices](#) derived from the original questions in the questionnaires.
- The students' performance scores in reading and science.
- The [student weights](#) and a country adjustment factor for the science weights.
- The 80 reading [Fay's replicates](#) for the computation of the sampling variance estimates.

The school file

The school questionnaire data file (filename: intscho.txt)

For each school that participated in the assessment, the following information is available:

- The identification variables for the country and school.
- The school responses on the [school questionnaire](#).
- The [school indices](#) derived from the original questions in the school questionnaire.
- The [school weight](#).

The assessment items data file (filename: intcogn.txt)

For each item included in the test, this file shows the students' responses expressed in a one-digit format. The items from mathematics and science used [double-digit coding](#) during marking¹. A file including these codes was available to national centres.

Which records are included in the international database?

Records included in the database

Student level

- All PISA students who attended one of the two test (assessment) sessions.
- PISA students who only attended the questionnaire session are included if they provided a response to the *father's occupation* questions or the *mother's occupation* questions on the [student questionnaire](#) (questions 8 to 11).

School level

- All participating schools — that is, any school where at least 25 per cent of the sampled eligible students were assessed — have a record in the school level international database, regardless of whether the school returned the school questionnaire.

Records excluded from the database

Student level

- Additional data collected by some countries for a national or international option such as a grade sample.
- Sampled students who were reported as not eligible, students who were no longer at school, students who were excluded for physical, mental or linguistic reasons, and students who were absent on the testing day.
- Students who refused to participate in the assessment sessions.
- Students from schools where less than 25 percent of the sampled and eligible students participated.

School level

- Schools where fewer than 25 per cent of the sampled eligible students participated in the testing sessions.

1. The responses from open-ended items could give valuable information about students' ideas and thinking, which could be fed back into curriculum planning. For this reason, the marking guides for these items in mathematics and science were designed to include a two-digit marking so that the frequency of various types of correct and incorrect response could be recorded. The first digit was the actual score. The second digit was used to categorise the different kinds of response on the basis of the strategies used by the student to answer the item. The international database includes only the first digit.

How are missing data represented?

The coding of the data distinguishes between four different types of missing data:

- **Item level non-response:** 9 for a one-digit variable, 99 for a two-digit variable, 999 for a three-digit variable, and so on. Missing codes are shown in the codebooks. This missing code is used if the student or school principal was expected to answer a question, but no response was actually provided.
- **Multiple or invalid responses:** 8 for a one-digit variable, 98 for a two-digit variable, 998 for a three-digit variable, and so on. This code is used for multiple choice items in both test booklets and questionnaires where an invalid response was provided. This code is not used for open-ended questions.
- **Not applicable:** 7 for a one-digit variable, 97 for a two-digit variables, 997 for a three-digit variable, and so on for the student questionnaire data file and for the school data file. Code “n” is used for a one-digit variable in the test booklet data file. This code is used when it was not possible for the student to answer the question. For instance, this code is used if a question was misprinted or if a question was deleted from the questionnaire by a national centre. The not-applicable codes and code “n” are also used in the test booklet file for questions that were not included in the test booklet that the student received.
- **Not reached items:** all consecutive missing values starting from the end of each test session were replaced by the non-reached code, “r”, except for the first value of the missing series, which is coded as missing.

How are students and schools identified?

The student identification from the student files consists of three variables, which together form a unique identifier for each student:

- The country identification variable labelled COUNTRY. The country codes used in PISA are the [ISO 3166](#) country codes.
- The school identification variable labelled SCHOOLID.
- The student identification variable labelled STIDSTD.

A fourth variable has been included to differentiate sub-national entities within countries. This variable (SUBNATIO) is used for four countries as follows:

- **Belgium.** The value “01” is assigned to the French Community and the value “02” is assigned to the Flemish Community.
- **Switzerland.** The value “01” is assigned to the German-speaking community, the value “02” is assigned to the French-speaking community and the value “03” is assigned to the Italian-speaking community.
- **United Kingdom.** The value “01” is assigned to Scotland, the value “02” is assigned to England and the value “03” is assigned to Northern Ireland.

- **Australia.** The eight values “01”, “02”, “03”, “04”, “05”, “06”, “07”, “08” are assigned to the Australian Capital Territory, New South Wales, Victoria, Queensland, South Australia, Western Australia, Tasmania and the Northern Territory respectively.

The school identification consists of two variables, which together form a unique identifier for each school:

- The country identification variable labelled COUNTRY. The country codes used in PISA are the [ISO 3166](#) country codes.
- The school identification variable labelled SCHOOLID.

THE WEIGHTS AND REPLICATES

Students included in the final PISA sample for a given country are not equally representative of the full student population. Sampling weights must be applied to compensate for differences in the selection probabilities of students. For example, if students from small schools are oversampled in a country, and survey weights are not applied, the resulting statistics will give too much weight to students in small schools. To account for the sample design during the analyses, so as not to produce biased results, survey weights must be incorporated into the analysis. In general, if students from part of the population (*e.g.*, students in small schools) are oversampled, then the weight associated with those students will reduce the contribution of that group to the overall statistic. If another group (*e.g.*, students in rural areas) are undersampled, then the weight associated with those students will inflate the contribution of that group to the overall statistic. The calculation of these weights can be found in the section “Additional Technical Information”.

The reading, mathematics and science weights

In the international data files, the variable called W_FSTUWT is the final student weight (the [calculation of student weights](#) is presented later in the document). The sum of the weights constitutes an estimate of the size of the target population, *i.e.*, the number of 15-year old students in that country attending school. In this situation large countries would have a stronger contribution to the results than small countries.

These weights are appropriate for the analysis of data that have been collected from **all assessed students**, such as student questionnaire data, and reading performance data.

Because of the [test design](#), using the reading weights for analysing the mathematics or science data will [overweight](#) the students assessed with the SE booklet and therefore (typically) underestimate the results.

To correct this over-weighting of the SE students, weight adjustment factors must be applied to the weights and replicates (see the “Additional Technical Information” section for more detail on the adjustment factors).

Because of the necessity of using these adjustment factors in analyses, and to avoid accidental misuse of the student data, these data are provided in the three separate files described above.

- The file *Instud_read.txt* comprises the reading ability estimates and weights. This file contains all eligible students who participated in the survey. As the sample design assessed reading by all students, no adjustment was needed.
- The file *Instud_math.txt* comprises the reading and mathematics ability estimates. Weights and replicates in this file have already been adjusted by the mathematics adjustment factor. Thus, no further transformations of the weights or replicates are required by analysts of the data.
- The file *Instud_scie.txt* comprises the reading and science ability estimates. Weights and replicates in this file have already been adjusted by the science adjustment factor. Thus, no further transformations of the weights or replicates are required by analysts of the data.

How to analyse the relationship between performance in mathematics and performance in science

As noted in the section on the PISA [test design](#), only two-ninths of students were assessed in both mathematics and science. In order to analyse the relationship between performance in mathematics and science, a separate adjustment factor, NOT provided in the current database, is needed. By the same token, the same adjustment factor is needed to perform any analysis that involves the simultaneous examination of performance in the three domains. Because of the relatively small sample size, an extensive use of this type of analysis must be undertaken with care. However, for users who wish to pursue this type of analysis, the adjustment factor should be: *i*) equal to 0.0 for all students assessed with booklets 1 to 7; *ii*) 4.5 for students assessed with booklets 8 or 9; and *iii*) 1.0 for students assessed with the SE booklet. The final student weight (W_FSTUWT) needs to be multiplied by the adjustment factor associated with each booklet, and the data weighted by the adjusted weight, for analyses which simultaneously include mathematics and science.

Normalising the student weights

If one uses the reading, mathematics and science weights as they are provided in the files and described in the previous section, the total sample size (N) of the output corresponds to an estimate of the number of students in the population in question rather than in the sample.

Population weights can be used without any concerns for most of the statistical analyses. On the other hand, variance decomposition models require that the sum of the weights is equal to the number of observations in the data file, otherwise the estimates of the variance components (i.e. school variance or within school variance) will not be appropriate.

The normalisation of the weights requires that the final weight and the 80 replicates be divided by the sum of the weights for a particular country and then multiplied by the number of observations.

The Fay's replicates

[Fay's replicates](#) are included in the data files because they are needed to compute unbiased-standard error estimates associated with any population parameter estimates. The standard error (of sampling) provides an estimate of the degree to which a statistic (such as a mean score) may be expected to vary about the true (but unknown) population mean. A 95% confidence interval for a mean (consisting of a region from 1.96 standard errors below the mean to 1.96 standard errors above the mean) may be constructed in such a way that, if the sampling procedure were repeated a large number of times, and the sample statistic re-computed each time, the confidence interval would be expected to contain the population estimate 95% of the time. Fay's replicates take into account the complex, two-stage, stratified sample design. If this is not done, one underestimates the standard error, thereby running the risk of obtaining statistical significance when in fact there is none. There are several methods of doing this, two of which are described here: a) [WesVar®](#), and b) [SAS®](#) or [SPSS®](#).

1. Using WesVar®

Software such as [WesVar®](#) (Westat, 2000) estimates sampling variances for complex design through replication methods. This technique involves repeatedly calculating estimates for G subgroups of the

sample and then computing the variance among these replicate estimates. The particular method of variance estimation that incorporates the [Fay's replicates](#) is known as Fay's Balanced Repeated Replication (BRR) method. BRR is generally used with multistage stratified sample designs, and usually has two units (in this case, schools) in each variance stratum. Using Fay's method, half of the sample is weighted by a factor K (which must be between 0 and 1; for analyses of PISA data, the factor K is set at 0.5), and the other half is weighted by $(2 - K)$.

The three student questionnaires data files contain the 80 replicates that should be used to estimate the sampling variances for the computed statistics. These 80 replicates are called W_FSTR1 to W_FSTR80. The replicates should only be used for analysing the appropriate performance data and for the questionnaire data.

The Fay's replicates included in the mathematics and science files have already been transformed with the adjustment factors mentioned above. Thus the data can be used without additional transformations.

When importing the data into a software package such as [WesVar®](#), the method used to create the replicates has also to be specified. It is of prime importance that the user selects the Fay's method and sets the Fay coefficient (Fay_K) as 0.5. If one does not select the method used for the replicate computation, the software will provide biased estimates of the sampling variance.

2. Using SAS® or SPSS®

The standard errors can also be estimated with more standard statistical packages such as SAS® or SPSS®, as follows:

- Step 1: Calculate each estimate of interest (such as the mean) 81 times – once by weighting the file with the final student weight, and once with each of the replicate weights.
- Step 2: Calculate the sum of the 80 squared differences between each of the replicate estimates in turn and the “full sample” estimate.
- Step 3: Divide the result by 20 to get the variance (The number 20 is correct in the case of PISA as 80 replicates and a Fay coefficient of 0.5 are used. If any of these two components are changed, then 20 is not the correct number anymore).
- Step 4: Take the square root to get the standard error.

Country weight adjustment factors

Each of the three student files contains a country adjustment factor for each assessment domain (CNTRFAC, for reading, CNTMFAC for mathematics, and CNTSFAC for science). These weights will give an equal weight to each country (rather than a weight that reflects the size of the 15-year-old population in that country). In this situation, a small country and a large country would contribute equally to the analysis.

These adjustment factors are designed to set the sum of the student weights for each country to 1,000, so that each country contributes equally in the calculation of a statistic across countries. When analyses are carried out across countries, the country adjustment factors should also be applied to the Fay's replicates.

THE STUDENT QUESTIONNAIRE FILES

The responses to the student questionnaires

The student files contain the original variables collected through the student context questionnaires, *i.e.*, the compulsory [student questionnaire](#) and the two international options: the [cross-curriculum competencies questionnaire \(CCC\)](#) and the [computer familiarity questionnaire \(IT\)](#).

The names that are used to represent these variables in the international database are directly related to the international version of the context questionnaires. Each variable name consists of seven characters.

ST □ □ Q □ □

The sixth and seventh characters refer to the item number of the question. For instance, STO1Q01 is the day of birth, STO1Q02 is the month of birth and STO1Q03 is the year of birth.

The third and fourth characters refer to the question number as it appears in the international version of the questionnaire. For instance, ST01 refers to the first question in the student questionnaire relating to the date of birth.

*The first two characters refer to the instrument:
ST for the student questionnaire,
IT for the computer familiarity questionnaire,
CC for the cross curriculum competencies questionnaire.*

The student performance scores

Performance scores

For each domain, *i.e.*, reading, mathematics and science, and for each subscale in reading, two kinds of estimate are provided: a [weighted likelihood estimate \(WLE\)](#) and a set of [plausible values](#).

It is recommended that the set of plausible values be used when analysing and reporting statistics at the population level. Using WLEs for population estimates will yield biased estimates.

The weighted likelihood estimates

The international database provides six weighted likelihood estimates and their standard errors, respectively labelled:

- variable WLERead to represent the reading ability estimate, which is provided for all students who answered at least one reading question;
- variable WLERead1 to represent the reading ability estimate for the retrieving subscale, which is provided for all students who answered at least one reading retrieving question;
- variable WLERead2 to represent the reading ability estimate for the interpreting subscale, which is provided for all students who answered at least one reading interpreting question;
- variable WLERead3 to represent the reading ability estimate for the reflecting and evaluating subscale, which is provided for all students who answered at least one reading reflecting and evaluating question;

- variable WLEMATH to represent the mathematics ability estimate, which is provided only for students who took booklets 1, 3, 5, 8, 9 or the special booklet and answered at least one mathematics question; and
- variable WLESCIE to represent the science ability estimate, which is provided only for students who took booklets 2, 4, 6, 8, 9 or the special booklet and answered at least one science question.

The plausible values

The plausible values represent a set of random values for each selected student at random from an estimated ability distribution of students with similar item response patterns and backgrounds. They are intended to provide good estimates of parameters of student populations (for example, country mean scores), rather than estimates of individual student proficiency, which are better estimated using the [weighted likelihood estimates](#).

The international database provides five plausible values for each domain and each reading subscale, respectively labelled:

- PV1read to PV5read for reading ability,
- PV1read1 to PV5read1 for reading ability, *retrieving information* subscale,
- PV1read2 to PV5read2 for reading ability, *interpreting* subscale,
- PV1read3 to PV5read3 for reading ability, *reflecting and evaluating* subscale,
- PV1math to PV5math for mathematics ability,
- PV1scie to PV5scie for science ability.

Each student included in the international database has performance plausible values for the reading domain as well as for the reading subscales. Only students who were assessed with booklets 1, 3, 5, 8, 9 and the special booklet, will have plausible values in mathematics, and only students who were assessed with booklets 2, 4, 6, 8, 9 and the special booklet will have plausible values in science.

Transformation of the ability estimates

The weighted likelihood estimates and the plausible values were transformed to a scale with a mean of 500 and a standard deviation of 100 by using the data for the participating OECD countries only (except the Netherlands²). These linear transformations used weighted data, with an additional adjustment factor so that each country contributed equally. The standardisation parameters were derived from the average of the mean and standard deviation computed from each of the five plausible values. This means that although the mean and standard deviation of individual plausible values will not be exactly 500 and 100, respectively, the average of the five means and the five standard deviations for each scale will be 500 and 100, respectively.

The transformation that was used to give reading a mean of 500 and a standard deviation of 100 was also applied to the three reading subscales. This means that the mean and the standard deviation for the reading subscales will differ from 500 and 100, respectively.

2. Response rate too low to ensure comparability (Annex A3, OECD (2001)).

To retrieve the mean of 500 and the standard deviation of 100, the following steps should be followed during data analysis:

1. Delete the data from the non-OECD countries (Brazil, Latvia, Liechtenstein and Russia) and from the Netherlands.
2. Transform the final weight (and the 80 Fay's replicates in the computation of the standard error is required) to equalise the contribution of each remaining countries. This transformation can be implemented by multiplying the final weight and 80 replicates by the appropriate country adjustment factor mentioned above.
3. For each plausible value, compute the mean and the standard deviation
4. Average the five mean estimates and the five standard deviation estimate.

Figure 1 presents the SAS® syntax for step 1 to 3 mentioned above.

Figure 1

SAS® syntax for calculating the mean of 500 and the standard deviation of 100

```

data pisa.tempo;
set pisa.studread;
if (cnt="NLD") then delete;
if (cnt="LVA") then delete;
if (cnt="LIE") then delete;
if (cnt="RUS") then delete;
if (cnt="BRA") then delete;
array poids(81)
w_fstuw1 w_fstr1-w_fstr80;
do i=1 to 81;
    poids(i)=(poids(i)* cntrfac);
end;
run;
proc means data=pisa.tempo vardef=wtg;
var pv1read pv2read pv3read pv4read pv5read;
weight w_fstuw1;
run;

```

How to analyse data using the plausible values

It is important to recognise that plausible values are not test scores and should not be treated as such. As noted above, plausible values are random numbers that are drawn from the distribution of scores that could be reasonably assigned to each individual. As such, the plausible values contain random error variance components (that is, variation between individual plausible values assigned to each student) and are not optimal as scores for individuals. However, the important characteristic of plausible values is that as a set, they are better suited for describing the performance of the population than a set of scores that are optimal at the individual student level (for example, the [weighted likelihood estimates](#)).

Plausible values can be thought of as intermediate values that provide consistent estimates of population parameters. Such estimates can be obtained using statistical software such as [WesVar®](#), [SPSS®](#) and [SAS®](#).

During data exploration, there is no need to work with the five plausible values; one can use a single plausible value. On average, one plausible value will provide unbiased estimates of population parameters. However for the final estimates, it is recommended that all five plausible values be used, otherwise the standard error estimated from one plausible value will only contain the sampling variance component while it should also contain the measurement error component. This means that the analysis should be undertaken five times, once with each of the five relevant plausible values. The results of these five analyses need to be combined so that the associated standard error incorporates measurement error associated with the variance between the five plausible values. The method for combining them is described below in two sections: one for users of the WesVar® software, and one for users of the SAS® and SPSS® software systems. An example of computing [correlation using plausible values](#) is included later in the document.

1. Using WesVar®

The [WesVar®](#) software can incorporate the five plausible values and produce the correct standard errors in the calculation of means of groups, using the 'PV' function. The degrees of freedom that WesVar® uses for these analyses are not the actual degrees of freedom but rather the number of replicate weights, 80 in the case of the PISA database. This is considered an accurate approximation to the actual degrees of freedom for the vast majority of analyses.

For other types of estimate, such as quartiles or medians, the analysis in question must be carried out five times and the five estimates combined as described in the section on SAS® and SPSS® that follows.

2. Using SAS® and SPSS®

As computer packages such as [SAS®](#) and [SPSS®](#) do not provide standard (measurement) errors associated with estimates, it is necessary to compute such standard errors using the following procedure. (Note that WesVar® only provides correct standard errors associated with means, so all other types of analysis done in WesVar® should also be undertaken using the procedures below.)

1. Separate estimates need to be computed for each plausible value. This will result in five estimated parameters (one associated with each plausible value). Each set (P1 to P5) should then be averaged to provide a mean parameter estimate (MP). Standard errors (SE1 to SE5) also need to be generated for each parameter estimate (P1 to P5).
2. The measurement error and sampling variances for the mean parameter estimate (MP) should then be computed. The measurement error variance should be computed using the following formula:

$$[(MP-P1)^2 + (MP-P2)^2 + (MP-P3)^2 + (MP-P4)^2 + (MP-P5)^2] / 4$$

The sampling variance should be computed using the following formula:

$$[(SE1^2 + SE2^2 + SE3^2 + SE4^2 + SE5^2) / 5]$$

The total variance should then be computed by summing the measurement error and the sampling variances. In doing so, a weight of 1.2 ($1 + 1/M$, where M is the number of plausible values) should be applied to the measurement error variance. The square root of the total variance provides an estimate of the standard error of the parameter estimate. Note that outputs from SAS®, SPSS® and WesVar® can be pasted into spreadsheet packages such as Excel, which can then be used to semi-automate this procedure, if many such analyses are to be undertaken. An example of how an Excel spreadsheet can be set up is given in Figure 2, below.³

Figure 2

Formulae for computation of standard errors of plausible values in Excel

<i>Plausible Value</i>	<i>Parameter Estimate</i>	<i>Standard Error*</i>
1	[a1]	[b1]
2	[a2]	[b2]
3	[a3]	[b3]
4	[a4]	[b4]
5	[a5]	[b5]
<i>Sampling variance</i>	$= (b1^2 + b2^2 + b3^2 + b4^2 + b5^2) / 5$ [a6]	
<i>Mean parameter estimate</i>	$= (a1 + a2 + a3 + a4 + a5) / 5$ [a7]	
<i>Measurement variance</i>	$= ((a1 - a7)^2 + (a2 - a7)^2 + (a3 - a7)^2 + (a4 - a7)^2 + (a5 - a7)^2) / 4$ [a8]	
<i>Variance of parameter estimate</i>	$= a6 + (1.2 * a8)$ [a9]	
<i>Corrected standard error</i>	$= \text{sqrt}(a9)$	

* If SAS® or SPSS® are used, then the SE should be estimated as previously described

How to analyse the data using the proficiency scale levels

PISA 2000 assessed reading literacy as the major domain, while keeping mathematics and science as minor domains. That means that two-thirds of the assessment was in reading literacy tasks. The reading scales were divided into five levels of knowledge and skills, facilitating their interpretation, and because of the manner in which the PISA performance data have been scaled, it is possible to describe what students scoring at around a particular point are able to do. Because both item difficulties and student performance scores are scaled to the same metric, one can examine items of similar difficulty and make inferences about the underlying skills and complexity of reasoning that are required to respond correctly to such clusters of items. Therefore, the application of techniques associated with item response theory to the PISA performance data means that it is possible to generate a criterion-referenced interpretation of student proficiency. The creation of proficiency levels is extremely useful from a policy and pedagogical point of view because it provides a shorthand description of what students in each group are likely to be able to do. Comparisons of the proportions of students at each proficiency level within and between

3. Formulae kindly provided by Keith Rust and Sheila Krawchuk of Westat, Inc.

countries can yield useful information about the relative strengths and weaknesses of groups of students. The development of the proficiency levels for PISA involved establishing appropriate cut-off points for each level, and developing a substantive description of the skills and knowledge associated with each level through a detailed examination of the items associated with these levels. The process of developing proficiency levels is thus an iterative one. Subject-matter experts and technical experts of the PISA consortium worked together to produce them.

PISA proficiency levels were defined in such a way that a student with a reading score at the bottom of a level has an average probability of .50 of correctly responding to all items at that level. Application of this criterion, and a further criterion that proficiency levels should be of fixed width (.80 logits), led to the establishment of a response probability convention of .62⁴. The label 'below Level 1' is assigned to students who did not meet the criterion for Level 1 (*i.e.*, the estimated probability of these students responding correctly to items at the bottom of Level 1 is less than .50). PISA does not describe what students below Level 1 can accomplish⁵. Similarly, PISA does not describe the upper limits of the knowledge and skills of students at Level 5 on the scales (*i.e.*, students at this level may have additional skills not assessed by PISA).

The cut-off points for the reading scales and its three subscales are 334.75, 407.47, 480.18, 552.89 and 625.61. The five levels are defined in Figure 3.

Figure 3

Cut points for proficiency levels for the PISA combined literacy scale and the three literacy subscales

Level 0: the reading score is equal to or below 334.75;

Level 1: the reading score is greater than 334.75 and equal to or below 407.47;

Level 2: the reading score is greater than 407.47 and equal to or below 480.18;

Level 3: the reading score is greater than 480.18 and equal to or below 552.89;

Level 4: the reading score is greater than 552.89 and equal to or below 625.61;

Level 5: the reading score is greater than 625.61.

4. For analysts familiar with the International Adult Literacy Survey (IALS), it is pertinent to point out that the response probability associated with the IALS proficiency levels was set at .80. This more stringent criterion means, in effect, that one must be more certain that a person can correctly respond to items associated with a particular proficiency level in order to categorise that individual as belonging to that level. This is especially relevant if analysts of the PISA 2000 international database are making comparisons between performance on the PISA assessment of reading literacy and performance on IALS.

5. Referring again to the IALS study, no distinction was made between students whose scores were below level 1. This may also be relevant to those wishing to make comparisons between the two studies.

To estimate the percentages of students in each of the six levels, five new categorical variables should be computed, one for each of the five plausible values provided by each scale or subscale, using the type of syntax shown in Figure 4, taken from SPSS®. It is acceptable to combine levels, such as Level 1 and below Level 1, but advisable that explicit note of this is made to prevent misinterpretation of results.

Figure 4

SPSS® syntax used to create six proficiency levels for each plausible value

```

*individual plausible values: proficiency levels for overall reading produces a proficiency
*level pvp1, pvp2, etc. associated with each plausible value, pv1read, pv2read, etc.

IF (pv1read le 334.75) pvp1 = 0.
IF (pv1read gt 334.75) pvp1 = 1.
IF (pv1read gt 407.47) pvp1 = 2.
IF (pv1read gt 480.18) pvp1 = 3.
IF (pv1read gt 552.89) pvp1 = 4.
IF (pv1read gt 625.61) pvp1 = 5.
IF (pv2read le 334.75) pvp2 = 0.
IF (pv2read gt 334.75) pvp2 = 1.
IF (pv2read gt 407.47) pvp2 = 2.
IF (pv2read gt 480.18) pvp2 = 3.
IF (pv2read gt 552.89) pvp2 = 4.
IF (pv2read gt 625.61) pvp2 = 5.

(... and so on for each of the five plausible values.)

```

Percentages and sampling variance can be estimated with WesVar® for each of these categorical variables. The results then need to be combined as described above (see Figure 1).

It is possible to shortcut this procedure by generating for each plausible value six dichotomous variables coded 0,1 (below level 1 or not, at level 1 or not, at level 2 or not, at level 5 or not). Therefore, 30 dichotomous variables need to be computed. As the percentage of students for these dichotomous variables can be estimated by computing the mean, then it becomes possible to use the *PV function* in WesVar®. The standard error will therefore consists of the sampling variance and the measurement error. Figure 5 shows the SAS syntax to generate the 30 dichotomous variables.

Figure 5

SAS® syntax to generate the proficiency levels using 30 dichotomous variables

```

array reading (5)
  pv1read pv2read pv3read pv4read pv5read;
array level0 (5)
  lev1r1-lev1r5;
array level1 (5)
  lev2r1-lev2r5;
array level2 (5)
  lev3r1-lev3r5;
array level3 (5)
  lev4r1-lev4r5;
array level4 (5)
  lev5r1-lev5r5;
array level5 (5)
  lev6r1-lev6r5;
do i=1 to 5;
  level0(i)=0;
  level1(i)=0;
  level2(i)=0;
  level3(i)=0;
  level4(i)=0;
  level5(i)=0;
  if (reading(i)<=334.75) then level0(i)=1;
  if (reading(i)> 334.75 and reading(i)<= 407.47) then level1(i)=1;
  if (reading(i)>407.47 and reading(i)<=480.18) then level2(i)=1;
  if (reading(i)>480.18 and reading (i)<=552.89) then level3(i)=1;
  if (reading(i)>552.89 and reading (i)<=625.61) then level4(i)=1;
  if (reading(i)>625.61) then level5(i)=1;
end;

```

Once these 30 variables are imported into WesVar®, then the *PV function* can be used and results do not need to be imported in an Excel® spreadsheet to be combined.

The student questionnaire indices

Several of PISA's measures reflect indices that summarise responses from students or school representatives (typically principals) to a series of related questions. The questions were selected from larger constructs on the basis of theoretical considerations and previous research. Structural equation modelling was used

to confirm the theoretically expected behaviour of the indices and to validate their comparability across countries. For this purpose, a model was estimated separately for each country and, collectively, for all OECD countries.

This section explains the indices derived from the student and school context questionnaires that are used in this report. For a description of other PISA indices and details on the methods see the *PISA 2000 Technical Report*.

Unless otherwise indicated, where an index involves multiple questions and student responses, the index was scaled using a weighted maximum likelihood estimate, using a one-parameter item response model (referred to as a WARM estimator; see Warm, 1985) with three stages:

- The question parameters were estimated from equal-sized sub-samples of students from each OECD country.
- The estimates were computed for all students and all schools by anchoring the question parameters obtained in the preceding step.
- The indices were then standardised so that the mean of the index value for the OECD student population was zero and the standard deviation was one (countries being given equal weight in the standardisation process).

It is important to note that negative values in an index do not necessarily imply that students responded negatively to the underlying questions. A negative value merely indicates that a group of students (or all students, collectively, in a single country) or principals responded less positively than all students or principals did on average across OECD countries. Likewise, a positive value on an index indicates that a group of students or principals responded more favourably, or more positively, than students or principals did, on average, in OECD countries.

Terms enclosed in brackets < > in the following descriptions were replaced in the national versions of the student and school questionnaires by the appropriate national equivalent. For example, the term <qualification at ISCED level 5A> was translated in the United States into “Bachelor’s Degree, post-graduate certificate program, Master’s degree program or first professional degree program”. Similarly the term <classes in the language of assessment> in Luxembourg was translated into “German classes” or “French classes” depending on whether students received the German or French version of the assessment instruments.

For the reliabilities of the indices, see the *PISA 2000 Technical Report*.

Indices derived through a direct combination of the answers from the student questionnaire

The following indices were included in the student questionnaire file:

- *Time in minutes spent each week at school in reading (RMINS), mathematics (MMINS) and science (SMINS) courses.* The three variables are simply the product of the following corresponding items:
 - How many <class periods> the students spent in courses in each of the three domains during the last full week (ST27Q01 for <test language> courses, ST27Q03 for <mathematics> courses, and ST27Q05 for <science> courses); and

- The number of instructional minutes in the average single <class period> from the school questionnaire (SC06Q03).
- **Age (AGE)**. The age of the student expressed in months computed from the students' date of birth (ST01).
- **Family structure (FAMSTRUC)**. Students were asked to report who usually lived at home with them. The responses were then grouped into four categories:
 - *single-parent family* – coded as 1 (students who reported living with one of the following: mother, father, female guardian or male guardian);
 - *nuclear family* – coded as 2 (students who reported living with a mother and a father);
 - *mixed family* – coded as 3 (students who reported living with a mother and a male guardian, a father and a female guardian, or two guardians); and
 - *other response combinations* – coded as 4.
- **Number of siblings (NSIB)**. Students were asked to indicate how many brothers and sisters they had older than themselves, younger than themselves, or of the same age. For the analyses in Chapter 8 (OECD, 2001), the numbers in each category were added together. This variable is based on the three items of question ST05.
- **Birth order (BRTHORD)**. Also based on ST05, this received a value of 0 if the student was the only child, 1 if the student was the youngest child, 2 if the student was a middle child, and 3 if the student was the oldest child.
- **Father's occupation (BFMJ), mother's occupation (BMMJ) and student's expected occupation at the age of 30 (BTHR)**. Students were asked to report their mothers' and fathers' occupations, and to state whether each parent was: in full-time paid work; part-time paid work; not working but looking for a paid job; or "other". The students' open-ended responses to questions ST08Q01, ST09Q01, ST10Q01 ST11Q01 and ST40Q01 were then coded in accordance with the International Standard Classification of Occupations (ISCO 1988), with these variables receiving the actual ISCO code and later recoded according to the *PISA International Socio-Economic Index of Occupational Status* (ISEI) explained below.
- **PISA International Socio-Economic Index of Occupational Status (ISEI)**. Additionally, these variables were transformed to create the PISA International Socio-Economic Index of Occupational Status, derived from students' responses on parental occupation. The index captures the attributes of occupations that convert parents' education into income. The index was derived by the optimal scaling of occupation groups to maximise the indirect effect of education on income through occupation and to minimise the direct effect of education on income, net of occupation (both effects being net of age). For more information on the methodology, see Ganzeboom *et al.* (1992). The ISEI variable is equal to the father's occupation or to the mother's occupation if the father's ISEI is missing. A second variable is also included (HISEI), based on either the father's or mother's occupations, whichever is the higher. Values on the index range from 16 to 90; low values represent low socio-economic status and high values represent high socio-economic status.

– **Parental education (FISCED for fathers and MISCED for mothers).** Students were asked to classify the highest level of education of their mother and father on the basis of national qualifications, which were then coded in accordance with the International Standard Classification of Education (ISCED 1997) in order to obtain internationally comparable categories of educational attainment. These were collected in two questions about each parent (questions ST12Q01 and ST14Q01 for the mother and questions ST13Q01 and ST15Q01 for the father). The father's educational level (FISCED) and the mother's educational level (MISCED) have the following categories, which are defined in accordance with the International Student Classification of Education (ISCED) (OECD, 1999a):

1. Did not go to school;
2. Completed <ISCED Level 1 only (primary education)>;
3. Completed <ISCED Level 2 only (lower secondary level)>;
4. Completed <ISCED Level 3B or 3C only (upper secondary level, aimed in most countries at providing direct entry into the labour market)>;
5. Completed <ISCED Level 3A (upper secondary, aimed in most countries at gaining entry into tertiary education)>; and
6. Completed <ISCED Level 5A, 5B or 6 (tertiary education)>.

Note: *Years of schooling* was used in Chapter 8 of the First Results from PISA 2000 (OECD, 2001) as a conversion of the highest level of educational attainment of the parents.

Weighted likelihood estimate indices

Indices from the student questionnaire

Fifteen indices from the [student questionnaire](#) were derived using the weighted estimate method (Warm, 1985). These indices are:

- **Index of cultural communication with parents (CULTCOM).** This index was derived from students' reports on the frequency with which their parents (or guardians) engaged with them in the following activities: discussing political or social issues; discussing books, films or television programmes; and listening to classical music. It was based on questions ST19Q01, ST19Q02 and ST19Q03.
- **Index of social communication with parents (SOCCOM).** This index was derived from students' reports on the frequency with which their parents (or guardians) engaged with them in the following activities: discussing how well they are doing at school; eating <the main meal> with them around a table; and spending time simply talking with them. It was based on questions ST19Q04, ST19Q05 and ST19Q06.
- **Index of family educational support (FAMEDSUP).** This index was derived from the students' reports on the frequency with which the following people work with them on their schoolwork: their mother, their father, their brothers and sisters. It was derived from questions ST20Q01, ST20Q02 and ST20Q03.

- *Index of family wealth (WEALTH)*. This index was derived from students' reports on: i) the availability, in their home, of a dishwasher, a room of their own, educational software, and a link to the Internet; and ii) the number of cellular phones, television sets, computers, motor cars and bathrooms at home. It was based on questions ST21Q01, ST21Q02, ST21Q03, ST21Q04, ST22Q01, ST22Q02, ST22Q04, ST22Q06 AND ST22Q07.
- *Index of home educational resources (HEDRES)*. This index was derived from students' reports on: i) the availability, in their home, of a dictionary, a quiet place to study, a desk for study, and textbooks; and ii) the number of calculators at home. It was based on questions ST21Q05, ST21Q06, ST21Q07, ST21Q08, ST22Q03.
- *Index of activities related to "classical" culture (CULTACTV)*. This index was derived from students' reports on how often they had participated in the following activities during the preceding year: visited a museum or art gallery; attended an opera, ballet or classical symphony concert; and watched live theatre. It was derived from questions ST18Q02, ST18Q04 and ST18Q05.
- *Index of possessions related to "classical" culture in the family home (CULTPOSS)*. This index was derived from students' reports on the availability of the following items in their home: classical literature (examples were given); and books of poetry and works of art (examples were given). It was based on questions ST21Q09, ST21Q10 and ST21Q11.
- *Index of time spent on homework (HMWKTIME)*. This index was derived from students' reports on the amount of time they devote to homework per week in the <language of assessment>, mathematics, and science. It was based on questions ST33Q01, ST33Q02 and ST33Q03.
- *Index of teacher support (TEACHSUP)*. This index was derived from students' reports on the frequency with which: the teacher shows an interest in every student's learning; the teacher gives students an opportunity to express opinions; the teacher helps students with their work; the teacher continues teaching until the students understand; the teacher does a lot to help students; and, the teacher helps students with their learning. It was derived from questions ST26Q05, ST26Q06, ST26Q07, ST26Q08, ST26Q09 and ST26Q10.
- *Index of disciplinary climate (DISCLIMA)*. This index derived from students' reports on the frequency with which, in their <language of assessment class>: the teacher has to wait a long time for students to <quieten down>; students cannot work well; students don't listen to what the teacher says; students don't start working for a long time after the lesson begins; there is noise and disorder; and, at the start of class, more than five minutes are spent doing nothing. It was based on questions ST26Q01, ST26Q12, ST26Q13, ST26Q14, ST26Q16 and ST26Q17. This index was inverted during reporting so that low values indicate a poor disciplinary climate (OECD, 2001).
- *Index of teacher-student relations (STUDREL)*. This index was derived from students' reports on their level of agreement with the following statements: students get along well with most teachers; most teachers are interested in students' well-being; most of their teachers really listen to what they have to say; if they need extra help, they will receive it from their teachers; and, most of their teachers treat them fairly. It was based on questions ST30Q01 to ST30Q05.

- *Index of achievement press (ACHPRESS)*. This index was derived from students' reports on the frequency with which, in their <language of assessment class>: the teacher wants students to work hard; the teacher tells students that they can do better; the teacher does not like it when students deliver <careless> work; and, students have to learn a lot. It was based on questions ST26Q02, ST26Q03, ST26Q04 and ST26Q15.
- *Index of student's sense of belonging in the school (BELONG)*. This index was derived from students' reports on their level of agreement with the following statements concerning their school: I feel like an outsider (or left out of things); I make friends easily; I feel like I belong; I feel awkward and out of place; other students seem to like me; and, I feel lonely. It was based on questions ST31Q01 to ST31Q06.
- *Index of engagement in reading (JOYREAD)*. This index was derived from students' level of agreement with the following statements: I read only if I have to; reading is one of my favourite hobbies; I like talking about books with other people; I find it hard to finish books; I feel happy if I receive a book as a present; for me, reading is a waste of time; I enjoy going to a bookstore or a library; I read only to get information that I need; and, I cannot sit still and read for more than a few minutes. It was based on questions ST35Q01 to ST35Q09.
- *Index of reading diversity (DIVREAD)*. This index was derived from the frequency with which students read the following materials because they wanted to: magazines, comic books, fiction (examples were given), non-fiction books, emails and Web pages, and newspapers. It was based on questions ST36Q01 to ST36Q06. For this index, categories 1 and 2 were recoded as 0 and categories 3, 4, 5 were recoded as 1.

These indices, based on weighted estimates (Warm, 1985), were standardised to have a mean of 0 and a standard deviation of 1 at the international level using the same procedures that were applied to the performance variables. Suggestions for ways of analysing these indices are given in the sub-section on "Analysis of the questionnaire data".

The indices from the cross curricular competencies questionnaire

Fourteen indices from the student [cross-curriculum competencies questionnaire](#) (also known as CCC questionnaire) were derived using the weighted estimate method (Warm, 1985). These indices are:

- *Index of control strategies (CSTRAT)*. This index was derived from the frequency with which students used the following strategies when studying: I start by figuring out what exactly I need to learn; I force myself to check to see if I remember what I have learned; I try to figure out, as I read, which concepts I still haven't really understood; I make sure that I remember the most important things; and, when I study and I don't understand something, I look for additional information to clarify the point. It was based on questions CC01Q03, CC01Q13, CC01Q19, CC01Q23 and CC01Q27. For information on the conceptual underpinning of the index see Baumert *et al.* (1994).
- *Index of effort and perseverance (EFFPER)*. This index was derived from the frequency with which students used the following strategies when studying: I work as hard as possible; I keep working even if

the material is difficult; I try to do my best to acquire the knowledge and skills taught; and, I put forth my best effort. It was based on questions CC01Q07, CC01Q12, CC01Q20 and CC01Q28.

- **Index of memorisation strategies (MEMOR).** This index was derived from the frequency with which students used the following strategies when studying: I try to memorise everything that might be covered; I memorise as much as possible; I memorise all new material so that I can recite it; and, I practise by saying the material to myself over and over. It was based on questions CC01Q01, CC01Q05, CC01Q10 and CC01Q15. For information on the conceptual underpinning of the index see Baumert *et al.* (1994) and Pintrich *et al.* (1993).
- **Index of perceived self-efficacy (SELFEF).** This index was derived from the frequency with which students used the following strategies when studying: I am certain I can understand the most difficult material presented in readings; I am confident I can do an excellent job on assignments and tests; and, I am certain I can master the skills being taught. It was based on questions CC01Q02, CC01Q18 and CC01Q26.
- **Index of control expectations (CEXP).** This index was derived from the frequency with which students used the following strategies when studying: when I sit myself down to learn something really hard, I can learn it; if I decide not to get any bad grades, I can really do it; if I decide not to get any problems wrong, I can really do it; and, if I want to learn something well, I can. It was based on questions CC01Q04, CC01Q11, CC01Q16 and CC01Q24.
- **Index of elaboration strategies (ELAB).** This index was derived from the frequency with which students used the following strategies when studying: I try to relate new material to things I have learned in other subjects; I figure out how the information might be useful in the real world; I try to understand the material better by relating it to things I already know; and, I figure out how the material fits in with what I have learned. It was based on questions CC01Q09, CC01Q17, CC01Q21 and CC01Q25. For information on the conceptual underpinning of the index see Baumert *et al.* (1994).
- **Index of instrumental motivation (INSMOT).** This index was derived from the frequency with which students study for the following reasons: to increase my job opportunities; to ensure that my future will be financially secure; and, to get a good job. It was based on questions CC01Q06, CC01Q14 and CC01Q22.
- **Index of interest in mathematics (INTMAT).** This index was derived from students' level of agreement with the following statements: when I do mathematics, I sometimes get totally absorbed; mathematics is important to me personally; and, because doing mathematics is fun, I wouldn't want to give it up. It was based on questions CC02Q01, CC02Q10 and CC02Q21. For information on the conceptual underpinning of the index see Baumert *et al.* (1997).
- **Index of self-concept in mathematics (MATCON).** This index was derived from students' level of agreement with the following statements: I get good marks in mathematics; mathematics is one of my best subjects; and, I have always done well in mathematics. It was based on questions CC02Q12, CC02Q15 and CC02Q18. For information on the conceptual underpinning of the index see Marsh *et al.* (1992).

- ***Index of interest in reading (INTREA)***. This index was derived from students' level of agreement with the following statements: because reading is fun, I wouldn't want to give it up; I read in my spare time; and, when I read, I sometimes get totally absorbed. It was based on questions CC02Q06, CC02Q13 and CC02Q17. For information on the conceptual underpinning of the index see Baumert *et al.* (1997).
- ***Index of self-concept academics (SCACAD)***. This index was derived from students' level of agreement with the following statements: I learn things quickly in most school subjects; I am good at most school subjects; and I do well in tests in most school subjects. It was based on questions CC02Q03, CC02Q07 and CC02Q20.
- ***Index of self-concept in reading (SCVERB)***. This index was derived from students' level of agreement with the following statements: I'm hopeless in <language of assessment classes>; I learn things quickly in the <language of assessment classes>; and, I get good marks in the <language of assessment>. It is based on questions CC02Q05, CC02Q09 and CC02Q23. For information on the conceptual underpinning of the index see Marsh *et al.* (1992).
- ***Index of competitive learning (COMLRN)***. This index was derived from students' level of agreement with the following statements: I like to try to be better than other students; trying to be better than others makes me work well; I would like to be the best at something; and, I learn things faster if I'm trying to do better than the others. It is based on questions CC02Q04, CC02Q11, CC02Q16 and CC02Q24. For information on the conceptual underpinning of the index see Owens and Barnes (1992).
- ***Index of co-operative learning (COPLRN)***. This index was derived from students' level of agreement with the following statements: I like to work with other students; I learn the most when I work with other students; I like to help other people do well in a group; and, it is helpful to put together everyone's ideas when working on a project. It is based on questions CC02Q02, CC02Q08, CC02Q19 and CC02Q22. For information on the conceptual underpinning of the index see Owens and Barnes (1992).

These indices, based on weighted estimates (Warm, 1985), were standardised to have a mean of 0 and a standard deviation of 1 at the international level using the same procedures as were applied to the performance variables. Only OECD countries (except Netherlands) that participated in the international cross-curriculum competencies option (CCC questionnaire) were included in this transformation.⁶

Indices from the computer familiarity questionnaire

Three indices from the student [computer familiarity questionnaire](#) were derived using the weighted estimate method (Warm, 1985). These indices are:

- ***Index of comfort with and perceived ability to use computers (COMAB)***. This index was derived from students' responses to the following questions: how comfortable are you with using a computer?; how comfortable are you with using a computer to write a paper?; how comfortable are you with

6. Note that Scotland participated while England and Northern Ireland did not. Therefore, Scotland was not included in the countries that contribute to the standardisation.

taking a test on a computer?; and, if you compare yourself with other 15-year-olds, how would you rate your ability to use a computer? It was based on questions IT02Q01, IT02Q02, IT02Q03, and IT03Q01. The items were inverted. For information on the conceptual underpinning of the index see Eignor *et al.* (1998).

- **Index of computer usage (COMUSE).** This index was derived from students' responses to the frequency to which they use the computer for the following purposes: to help them learn school material; for programming; for word processing (examples of software packages were given); spreadsheets (examples of software packages were given); drawing, painting or graphics; and, educational software. It was based on questions IT05Q03, IT05Q04, IT06Q02, IT06Q03, IT06Q04, and IT06Q05. The items were inverted.
- **Index of interest in computers (COMATT).** This index was derived from students' responses to the following statements: it is very important to me to work with a computer; to play or work with a computer is really fun; I use a computer because I am very interested in this; and, I forget the time, when I am working with the computer. It is based on questions IT07Q01, IT08Q01, IT09Q01, and IT10Q01. The items were inverted. For information on the conceptual underpinning of the index see Eignor *et al.* (1998).

These indices, based on weighted estimates (Warm, 1985), were standardised to have a mean of 0 and a standard deviation of 1 at the international level using the same procedures as were applied to the performance variables. Only OECD countries (except Netherlands) that participated in the optional computer familiarity component (IT questionnaire) were included in this transformation.

Analysis of the questionnaire data

This section presents a suggestion for analysing the questionnaire data through the aggregation of variables.

Aggregating variables

Some variables from the student questionnaire can be aggregated to the school level for specific analysis since they represent measures of school climate or provide a proxy for the socio-economic status of the student body. Aggregation can be especially useful if one is carrying out multilevel analyses of performance. The amount of between-school variation with respect to these variables may also be of interest in and of itself (*i.e.*, outside student performance); for example, the between-school variability associated with the International Socio-Economic Index of Occupational Status (ISEI) gives an indication of the extent to which segregation by socio-economic levels occurs between schools. An added advantage of aggregation is that missing data items are reduced to zero at the school level. The variables in the student file that could provide useful school-level indicators include:

- School level International Socio-Economic Index of Occupational Status (ISEI or HISEI)
- Index of family wealth of the student body (WEALTH)
- Index of teacher support (TEACHSUP)

- Index of disciplinary climate (DISCLIMA)
- Index of teacher-student relations (STUDREL)
- Index of achievement press (ACHPRESS)
- Index of students' sense of belonging in the school (BELONG).

An example of a SPSS® syntax for aggregating ISEI is provided in Figure 6.

Figure 6

SPSS® syntax used to aggregate the International Socio-Economic Index of Occupational Status (ISEI) of the student level to the school level

```
get file='file with variable to be aggregated'.
```

```
sort by schoolid (a).
```

```
aggregate
```

```
  /outfile='new file to contain aggregate variable(s)'
```

```
  /break=schoolid
```

```
  /schisei = mean(isei).
```

```
*schisei is thus the aggregated isei.
```

```
get file='school file to which aggregate isei is to be matched'.
```

```
sort by schoolid (a).
```

```
*both files need to be sorted in ascending order by the variable on which they are matched.
```

```
*the match variable must be a unique identifier for the school and in the same format in both *files.  
The variable schoolid is the match variable in this example. It was created by multiplying the *stratum  
ID (stidstrt) by 1,000,000 and adding it to the school ID (stidsch) in both files.
```

```
match files
```

```
  /file=*
```

```
  /table='new file containing aggregate variable(s)'
```

```
  /by schoolid.
```

```
save outfile='new file containing original school file plus new aggregate variables'.
```

```
execute.
```

THE SCHOOL FILE

The responses to the school questionnaire

The school files contain the original variables collected through the school context questionnaire.

The names which are used to represent these variables in the international database are directly related to the international version of the [school questionnaire](#). Each variable name consists of seven characters.

SC□□Q□□

The sixth and seventh characters refer to the item number of the question. For instance, SC02Q01 is the number of boys and SC02Q02 is the number of girls enrolled in the school.

The third and fourth characters refer to the question number as it appears in the international version of the school questionnaire. For instance, SC02 refers to the second question in the school questionnaire relating to enrolment.

The first two characters refer to the instrument: SC for the school questionnaire.

The school weight

The school base weight, which has been adjusted for school non-response, is provided at the end of the school file. PISA uses an age sample instead of a grade sample. Additionally, the PISA sample of school in some countries included primary schools, lower secondary schools, upper secondary schools, or even special education schools. For these two reasons, it is difficult to conceptually define the school population, except this it is the population of schools with at least one 15-year-old student. While in some countries, the population of schools with 15-year-olds is similar to the population of secondary schools, in other countries, these two populations of schools are very different.

A recommendation is to analyse the school data at the student level. From a practical point of view, it means that the school data should to be imported into the student data file. From a theoretical point of view, while it is possible to estimate the percentages of schools following a specific school characteristic, it is not meaningful. Instead, the recommendation is to estimate the percentages of students following the same school characteristic. For instance, the percentages of private schools versus public schools will not be estimated, but the percentages of students attending a private school versus the percentage of students attending public schools will.

As school data will be imported in the student data file, the final weight and the 80 [Fay's replicates](#) will be used in a similar what to how they are used for the student data.

The school questionnaire indices

As in the student questionnaire data file, two kinds of indices were derived from the school questionnaire data.

Indices derived through a direct combination of the answers from the school questionnaire

These indices, derived from the [school questionnaire](#), are mainly related to the school size, the computer environment of the school and school staffing.

- **School size (SCHLSIZE)**. This index represents the total enrolment in the school and is the sum of the number of boys (SC02Q01) and the number of girls (SC02Q02) enrolled in the school.
- **Percentage of girls (PCGIRLS)**. This index is the ratio between the number of girls and the total enrolment – number of boys (SC02Q01) plus number of girls (SC02Q02) – *i.e.*, the number of girls in the school divided by the total enrolment.
- **School type (SCHLTYPE)**. A school was classified as either public or private according to whether a public agency or a private entity had the ultimate power to make decisions concerning its affairs. It was based on SC03Q01 and SC04Q01 to SC04Q04. It was further divided into three categories⁷:
 - *Government-independent private schools* were coded as 1, if the school principal reported that the school was controlled and managed by a non-governmental organisation (*e.g.*, a church, a trade union or a business enterprise) or if its governing board consisted mostly of members not selected by a public agency, where it received less than 50 per cent of its core funding from government agencies.
 - *Government-dependent private schools* were coded as 2, if the school principal reported that the school was controlled and managed by a non-governmental organisation (*e.g.*, a church, a trade union or a business enterprise) or if its governing board consisted mostly of members not selected by a public agency, where it received 50 per cent or more of its core funding from government agencies.
 - *Government or public schools* were coded as 3, if the school principal reported that the school was: controlled and managed directly by a public education authority or agency; or controlled and managed either by a government agency directly or by a governing body (council, committee, etc.), most of whose members were either appointed by a public authority or elected by public franchise.
- **Hours of schooling per year (TOTHR)**. This index was derived from the information which principals provided on: the number of weeks in the school year for which the school operates; the number of <class periods> in the school week; and the number of teaching minutes in a single <class period>. It consists of the total number of 60-minute hours of schooling per year. It was based on the product of the three factors, SC06Q01, SC06Q02, SC06Q03, divided by 60.
- **Number of computers per student per school (RATCOMP)**. This index is the total number of computers in the school (SC13Q01), divided by the school size (SCHLSIZE).
- **Proportion of computers available to 15-year-olds (PERCOMP1)**. This index is the number of computers available to 15-year-old students (SC13Q02), divided by the total number of computers in the school (SC13Q01).
- **Proportion of computers available to teachers only (PERCOMP2)**. This index is the number of computers available only to teachers (SC13Q03), divided by the total number of computers in the school (SC13Q01).

7. For a definition of the types of schools, see OECD (1998, p. 422).

- *Proportion of computers available to the administrative staff (PERCOMP3)*. This index is the total number of computers available only to the administrative staff (SC13Q04), divided by the total number of computers in the school (SC13Q01).
- *Proportion of computers with Internet access (PERCOMP4)*. This index is the number of computers connected to the Internet/World Wide Web (SC13Q05), divided by the total number of computers in the school (SC13Q01).
- *Proportion of computers on a local network (PERCOMP5)*. This index is the number of computers connected to a local area network (LAN, Intranet) (SC13Q06), divided by the total number of computers in the school (SC13Q01).
- *Student-teaching staff ratio (STRATIO)*. This index is the school size (SCHLSIZE) divided by the total number of teachers ($SC14Q01 + (0.5 * SC14Q02)$, that is, part-time teachers contribute 0.5 and full-time teachers 1.0 to the total number of teachers). This rule applies to all indices based on question SC14.
- *Proportion of teachers with a third level qualification [ISCED 5A] (PROPQUAL)*. This index is the total number of teachers who have an <ISCED 5A> qualification in <pedagogy> ($SC14Q03 + (0.5 * SC14Q04)$) divided by the total number of teachers ($SC14Q01 + (0.5 * SC14Q02)$).
- *Proportion of teachers who are certified by the appropriate authority (PROPCERT)*. This index is the total number of teachers fully certified as teachers by <the appropriate authority> ($SC14Q05 + (0.5 * SC14Q06)$) divided by the total number of teachers ($SC14Q01 + (0.5 * SC14Q02)$).
- *Proportion of <language of assessment> teachers who have a third level qualification (ISCED 5A) (PROPREAD)*. This index is the total number of <language of assessment> teachers who have a third level qualification ($SC14Q09 + (0.5 * SC14Q10)$) divided by the total number of teachers ($SC14Q01 + (0.5 * SC14Q02)$).
- *Proportion of mathematics teachers who have a third level qualification (ISCED 5A) (PROPMATH)*. This index is the total number of mathematics teachers who have a third level qualification ($SC14Q13 + (0.5 * SC14Q14)$) divided by the total number of teachers ($SC14Q01 + (0.5 * SC14Q02)$).
- *Proportion of science teachers who have a third level qualification (ISCED 5A) (PROPSCIE)*. This index is the total number of science teachers who have a third level qualification ($SC14Q17 + (0.5 * SC14Q18)$) divided by the total number of teachers ($SC14Q01 + (0.5 * SC14Q02)$).

Weighted likelihood estimate indices

The following indices from the [school questionnaire](#) were derived using the weighted estimate method (Warm, 1985):

- *Index of the quality of schools' educational resources (SCMATEDU)*. This index was derived from school principals' reports on the extent to which learning by 15-year-olds in their school was hindered

by: lack of instructional material; not enough computers for instruction; lack of instructional materials in the library; lack of multi-media resources for instruction; inadequate science laboratory equipment; and, inadequate facilities for the fine arts. It was based on questions SC11Q04 to SC11Q09. This index was inverted during reporting so that low values indicate a low quality of educational resources (OECD, 2001)

- ***Index of the quality of schools' physical infrastructure (SCMATBUI)***. This index was derived from principals' reports on the extent to which learning by 15-year-olds in their school was hindered by: poor condition of buildings; poor heating and cooling and/or lighting systems; and, lack of instructional space (*e.g.*, in classrooms). It was based on questions SC11Q01 to SC11Q03. This index was inverted during reporting so that low values indicate a low quality of physical infrastructure (OECD, 2001).
- ***Index of teacher shortage (TCSHORT)***. This index was derived from principals' views on how much learning by 15-year-old students was hindered by: shortage or inadequacy of teachers in general and shortage of teachers in the <language of assessment>, mathematics or science. It was based on questions SC21Q01 TO SC21Q04. This index was inverted during reporting so that low values indicate problems with teacher shortage (OECD, 2001).
- ***Index of principals' perceptions of teacher-related factors affecting school climate (TEACBEHA)***. This index was derived from principals' reports on the extent to which the learning by 15-year-olds was hindered by: low expectations of teachers; poor student-teacher relations; teachers not meeting individual students' needs; teacher absenteeism; staff resisting change; teachers being too strict with students; and students not being encouraged to achieve their full potential. It was based on questions SC19Q01, SC19Q03, SC19Q07, SC19Q08, SC19Q11, SC19Q14 and SC19Q16. This index was inverted during reporting so that lower values indicate a poorer disciplinary climate (OECD, 2001).
- ***Index of principals' perceptions of student-related factors affecting school climate (STUDBEHA)***. This index was derived from principals' reports on the extent to which learning by 15-year-olds in their school was hindered by: student absenteeism; disruption of classes by students; students skipping classes; students lacking respect for teachers; the use of alcohol or illegal drugs; and students intimidating or bullying other students. It was based on questions SC19Q02, SC19Q06, SC19Q09, SC19Q10, SC19Q13 and SC19Q15. This index was inverted during reporting so that low values indicate a poorer disciplinary climate (OECD, 2001).
- ***Index of principals' perceptions of teachers' morale and commitment (TCMORALE)***. This index was derived from the extent to which school principals agreed with the following statements: the morale of the teachers in this school is high; teachers work with enthusiasm; teachers take pride in this school; and, teachers value academic achievement. It was based on questions SC20Q01 to SC20Q04.
- ***Index of school autonomy (SCHAUTON)***. School principals were asked to report whether teachers, department heads, the school principal, an appointed or elected board or an education authority at a higher level had the main responsibility for: appointing teachers; dismissing teachers; establishing teachers' starting salaries; determining teachers' salary increases; formulating school budgets; allocating budgets within the school; establishing student disciplinary policies; establishing student assessment policies; approving students for admittance to school; choosing which textbooks to use; determining

course content; and deciding which courses were offered. The PISA index of school autonomy was derived from the number of categories that principals classified as not being a school responsibility. It was based on questions SC22Q01 to SC22Q12. This index was inverted during reporting so that high values indicate a high degree of autonomy.

- ***Index of teacher autonomy (TCHPARTI)***. School principals were asked to report whether teachers, department heads, the school principal, an appointed or elected board or an education authority at a higher level had the main responsibility for: appointing teachers; dismissing teachers; establishing teachers' starting salaries; determining teachers' salary increases; formulating school budgets; allocating budgets within the school; establishing student disciplinary policies; establishing student assessment policies; approving students for admittance to school; choosing which textbooks to use; determining course content; and deciding which courses were offered. The PISA index of teacher autonomy was derived from the number of categories that principals classified as being mainly the responsibility of teachers. It was based on questions SC22Q01 to SC22Q12.

These indices, based on weighted estimates (Warm, 1985), were standardised to have a mean of 0 and a standard deviation of 1 at the international level using the same procedures as were applied to the performance variables, *i.e.*, each OECD country, except the Netherlands⁸, contributed equally to the standardisation.

8. Response rate too low to ensure comparability (Annex A3, OECD (2001)).

THE FILE WITH THE STUDENT TEST DATA

The file with the test data (*filename: INTCOGN.TXT*) contains individual students' responses to all items used for the international item calibration and in the generation of the [plausible values](#). All item responses included in this file have a one-digit format, which contains the score for the student on that item.

The PISA items are organised into units. Each unit consists of a piece of text or related texts, followed by one or more questions. Each unit is identified by a short label and by a long label. The units' short labels consist of four characters. The first character is R, M or S respectively for reading, mathematics or science. The three next characters indicate the unit name. For example, R083 is a reading unit called 'Household'. The full item label (usually seven-digit) represents each particular question within a unit. Thus items within a unit have the same initial four characters: all items in the unit 'Household' begin with 'R083', plus a question number: for example, the third question in the 'Household' unit is R083Q03.

Users may notice that the question numbers in some cases are not sequential, and in other cases, that question numbers are missing. The initial item numbering was done before the field trial, with some changes occurring after it (the field trial took place a year before the main assessment). For example, during the development of the main study instruments, some items were re-ordered within a unit, while others were deleted from the item pool.

In this file, the items are sorted by domain and alphabetically by short label within domain. This means that the mathematics items appear at the beginning of the file, followed by the reading items and then the science items. Within domains, units with smaller numeric IDs appear before those with larger IDs, and within each unit, the first question will precede the second, and so on.

Recoding of the assessment items

Some of the items needed to be recoded prior to the national and international scaling processes.

- Double-digit coded items (mathematics and science only) were truncated by retaining only the first digit, which corresponds to the score initially assigned to the item.
- Other items were recoded and/or combined. These items have been re-labelled. The character "T" was added to the end of the previous short label for such items.
- Numerical variables were recoded into scores, *i.e.*, incorrect answer (0), correct answer (1), missing answer (9) or not applicable (7).
- Some questions consisted of several true/false or yes/no items. Two questions were also composed of several multiple choice items (R088Q04 and R099Q03). These items were combined into new variables. The new codes correspond to the number of correct answers on the subset of items.
- Finally, five items, which comprised a subset of items (R119Q09, R122Q01, R216Q03, R219Q01 and M192Q01), were combined to form new variables. The combined codes correspond to the number of correct answers to each of the sub-items included in these five items.

National item deletions

Assessment data were initially scaled by country, and item parameter estimates were analysed across countries. During the item adjudication process, some items were flagged for particular countries and a consultation process took place to perform additional checks on these so-called “dodgy items”. This consultation led to the deletion of a few of them at the national level. These deleted items, identified in Figure 7, were recoded as *not applicable* and were not included in either the international scaling or the generation of [plausible values](#).

Figure 7

Items deleted for a particular country

<i>Country</i>	<i>Item name</i>	<i>Country</i>	<i>Item name</i>
Austria	M155Q03	Korea	R237Q03
Austria	R055Q03	Korea	R246Q02
Austria	S133Q04T	Mexico	R040Q02
Belgium, Dutch version	R076Q05	Netherlands	R076Q05
Belgium, Dutch version	R100Q05	Netherlands	R100Q05
Brazil	M033Q01	Netherlands	S268Q02T
Canada, French version	R101Q08	Poland	R099Q04B
England	R076Q03	Russian Federation	R091Q05
England	R076Q04	Spain	R227Q01
Germany	R055Q03	Sweden	R091Q07B
Germany	S133Q04T	Switzerland, German version	M155Q01
Greece	R040Q02	Switzerland, German version	M155Q03
Hungary	R119Q04	Switzerland, German version	M155Q04
Iceland	R236Q01	Switzerland, German version	R055Q03
Iceland	S268Q02T	Switzerland, German version	R076Q03
Italy	R040Q06	Switzerland, German version	R091Q05
Italy	R219Q01T	Switzerland, German version	R111q06B
Japan	M155Q01	Switzerland, German version	R239Q02
Korea	R102Q04A	Switzerland, German version	S133Q04T
Korea	R216Q02	Switzerland, Italian version	S268Q06

International scores assigned to the items

The final scores allocated to the different categories are presented in [Appendix 8](#). The codes are grouped according to the scores they were assigned for the final international calibration.

MODIFICATION OF THE INTERNATIONAL DATABASE

The PISA 2000 Initial Report analyses were performed on a preliminary version of the international database. This preliminary version was used extensively by the National Project Managers in the participating countries for writing their national reports.

During the data analysis phase, a few National Project Managers identified some remaining errors and submitted some requests for recoding of the original data. This section describes the modifications introduced in the preliminary version. Some of these modifications will have slight effects on the results published in the initial report.

Student questionnaire data

The following national modifications relating to the [student questionnaire](#) data were implemented to the international database:

- **Latvia:** recoding to “not applicable” of questions ST41Q01 to ST41Q06;
- **Netherlands:** recoding of about 300 records for question ST25Q01 and fewer than 100 records for question ST17Q01;
- **Portugal:** recoding to “not applicable” all records for question ST01Q01;
- **Switzerland:** recoding of fewer than 100 records for question ST17Q01;
- **Sweden:** recoding of fewer than 100 records for questions ST41Q04 to ST41Q06.

School questionnaire data

The following national modifications relating to the [school questionnaire](#) data were implemented to the international database:

- **Australia:** recoding of fewer than 100 records for question SC02Q01, SC02Q02, and SC05Q01 to SC05Q14; recoding to “not applicable” of question SC07Q02.
- **Ireland:** recoding of fewer than 10 records for question SC02Q01, SC02Q02 and SC14Q01 to SC14Q18.

MAKING COMPARISONS

To test whether the means for two sub-groups (A and B) of students are different a t -test needs to be performed. The formula for the t -test is:

$$T = \frac{(\hat{\mu}_A - \hat{\mu}_B)}{\sqrt{\hat{\sigma}_{(\hat{\mu}_A - \hat{\mu}_B)}^2}}$$

where $\hat{\mu}_A$ is the estimated mean of group A, $\hat{\mu}_B$ is the estimated mean of group B, and $\hat{\sigma}^2$ is the estimated sampling variance for the difference in the means. The null hypothesis of equal means is rejected at the α level if $|T| > t_v(\alpha)$, where $t_v(\alpha)$ is the α critical value for the t distribution with v degrees of freedom.

In general

$$\hat{\sigma}_{(\hat{\mu}_A - \hat{\mu}_B)}^2 = \hat{\sigma}_{(\hat{\mu}_A)}^2 + \hat{\sigma}_{(\hat{\mu}_B)}^2 - 2\text{cov}(\hat{\mu}_A, \hat{\mu}_B)$$

where $\hat{\sigma}_{(\hat{\mu}_A)}^2$ is the sampling variance for the estimated mean of group A, $\hat{\sigma}_{(\hat{\mu}_B)}^2$ is the sampling variance for the estimated mean of group B, and $\text{cov}(\hat{\mu}_A, \hat{\mu}_B)$ is the sampling covariance for the estimates of the two means. That is, the sampling variance for the difference between two means is equal to the sampling variance on the first mean (Group A), plus the sampling variance on the second mean (Group B), minus two times the covariance between the two means. If the two samples are independent, this covariance is 0, and the sampling variance of the difference simplifies to be the sum of the sampling variance for the estimates of the performance for each of the two groups

Dependent versus independent samples

If the *samples are independent*, as is the case for countries in the PISA, the sampling variance for the difference between two countries will be the sum of their respective sampling variances.

If the *samples are not independent*, the covariance will need to be computed to accurately estimate the sampling variance of the difference. Two examples of dependent samples are: *i*) the sample of boys and the sample of girls within a particular country, and *ii*) the country sample and the OECD sample as the country sample contributes to the OECD parameter estimates (*e.g.*, when comparing the country mean estimate with the OECD average).

When samples are not independent, a way to estimate the sampling variance for the difference is to use the [Fay's replicates](#) (variables W_FSTR1-W_FSTR80) included in the international database. In the case of comparing a country mean estimate with the OECD mean estimate, the final estimate for the difference will be the difference between the country estimate and the OECD estimate, using the student final weight, *i.e.* W_FTSUWT. To compute the sampling variance for the difference, it will be necessary to compute the difference for each replicate; then use these 80 estimates for the difference to compute the

sampling variance on the difference, as mentioned on page 19 of this manual. Another way to compute the sampling variance for the difference is to use the cell function in [WesVar®](#).

Note: It is worth noting that the sampling variance for the difference between two independent samples can also be computed in [WesVar®](#), using the replicates. But, given that a small covariance may be observed by chance, the results will be slightly different than when using the formulae for two independent samples.

The Bonferroni Adjustment

In the publication *Knowledge and Skills for Life – First Results from PISA 2000 (OECD, 2001)* the Bonferroni adjustment was used in the test of significance in the multiple comparison tables and in the figures comparing each country mean estimate with the mean estimate of other countries used (Figure 2.4, Figure 3.2, Figure 3.6, Table 2.2a, Table 2.2b, and Table 2.2c). The Bonferroni adjustment was not applied to the tests of significance included in any other tables or figures, including those that compare the country mean estimate and the OECD mean estimates.

In the table of multiple comparisons of achievement, the reader is more likely to compare one country with each of the other countries one at a time. Therefore, the Bonferroni adjustment is based on 31 comparisons (that is, one country with the other 31 countries) and not 496 comparisons (that is, all possible pairwise comparisons $(32 \times 31) / 2$). With a type I error rate of 0.05, the critical value adjusted for 31 comparisons is approximately equal to 3.154, instead of 1.960.

ADDITIONAL TECHNICAL INFORMATION AND GLOSSARY

Calculation of correlation using plausible values

Let us suppose that one is interested in the correlation between the student reading ability, denoted X , and a context variable Y , collected through the [student questionnaire](#). The correlation between X and Y , denoted $r^*(X, Y)$, should be computed for each of the five [plausible values](#). The correlation that has to be reported will be the average of the five computed correlations:

$$r^*(X, Y) = \frac{1}{5} \sum_{m=1}^5 \hat{r}_m,$$

where \hat{r}_m is the estimate of r computed using the m^{th} plausible value.

The final estimate of r is the average of the estimates computed using each plausible value in turn. If U_m is the sampling variance for \hat{r}_m then the sampling variance of r^* is:

$$V = U^* + (1 + M^{-1})B_M,$$

$$\text{where } U^* = \frac{1}{m} \sum_{m=1}^M U_m \text{ and } B_M = \frac{1}{M-1} \sum_{m=1}^M (\hat{r}_m - r^*)^2.$$

An α -% confidence interval for r^* is $r^* \pm t_V [(1 - \alpha)/2] V^{1/2}$ where $t_V(s)$ is the s percentile of the t -distribution with V degrees of freedom. $V = \frac{1}{\frac{f_M^2}{M-1} + \frac{(1-f_M)^2}{d}}$, $f_M = (1 + M^{-1})B_M/V$

and d is the degrees of freedom that would have applied if θ_n had been observed. In PISA the value of d will be equal to 80.

It is worth noting that the use of one plausible value will provide unbiased estimates of population parameters. However, the standard error estimated from the use of just one plausible value will contain the sampling variance component and not the measurement variance. It will therefore slightly underestimate the total uncertainty in the estimate.⁹

Codebook

A codebook is a document that identifies the variables and all possible values associated with them. In addition to the name of the variable, it also shows the variable label, all possible responses (*i.e.*, in the case of multiple choice items it shows the values for all alternatives and the full label of each alternative), type of variable (*e.g.* string or numeric) and the columns where the values are shown in the actual data file.

9. B_M cannot be computed if just one plausible value is used.

Compendia

Compendia include a set of tables showing statistics for every item included in the questionnaires, and the relationship with performance. The tables show the percentage of students per category of response and the performance for the group of students in each category of response.

Double-digit coding

Students' responses could give valuable information about their ideas and thinking, besides being correct or incorrect. The marking guides for mathematics and science included a system of two-digit coding for marking so that the frequency of various types of correct and incorrect responses could be recoded. The first digit is the actual score. The second digit is used to categorise the different kinds of responses on the basis of the strategies used by the student to answer the item. There are two main advantages of using double-digit codes. Firstly, more information can be collected about students' misconceptions, common errors, and different approaches to solving problems. Secondly, double-digit coding allows a more structured way of presenting the codes, clearly indicating the hierarchical levels of groups of codes. The assessment data files including the second digit were available to national centres.

ISO 3166

For International Standardization Organization (ISO) country codes, see <ftp://ftp.ripe.net/iso3166-countrycodes>.

Replication methodology for calculation of variance

The approach used for calculating sampling variances is known as Balanced Repeated Replication (BRR), or Balanced Half-Samples. A particular variant, known as Fay's method, has been used.

The variance estimator is:

$$V_{BRR}(X^*) = \frac{1}{T(1-K)^2} \sum_{t=1}^T \{(X^*_t - X^*)^2\},$$

where X^* is the estimate of a given statistic from the full sample, V^*_t a set of T replicate estimates and K the Fay's coefficient. For PISA 2000, 80 replicates were computed and the Fay's coefficient was set to $K = 0.5$. Therefore, the factor $\frac{1}{T(1-K)^2}$ is equal to $\frac{1}{20}$.

SAS®

SAS® is a statistical package. For further information: <http://www.sas.com>.

SPSS®

SPSS® is a statistical package. For further information: <http://www.spss.com>.

Student weights

Calculation of student weights

The weight, W_{ij} , for student j in school i can be expressed in the following form:

$W_{ij} = f_{1i} f_{2i} f_{1i}^A w_{2ij} w_{1i}$, where

w_{1i} is given as the reciprocal of the probability of inclusion of school i in the sample;

w_{2ij} is given as the reciprocal of the probability of selection of student j from within the selected school i ;

f_{1i} is an adjustment factor to compensate for non-participation by other schools that are somewhat similar in nature to school i (not already compensated for by the participation of replacement schools);

f_{1i}^A is an adjustment factor to compensate for the fact that, in some countries, in some schools only 15-year-old students who are enrolled in the modal grade for 15-year-olds were included in the assessment; and

f_{2i} is an adjustment factor to compensate for the absence of performance scale scores from some sampled students within school i (who were not excluded).

Explanation of weight adjustment factors associated with the special education (SE) booklet

Let us suppose that 1,000 students were assessed in a country. Suppose that nine hundred of these students were assessed with one of the nine rotated booklets, as shown in Figure 8, and the remaining 100 students were assessed with the SE booklet. Mathematics materials were included in booklets 1, 3, 5, 8, 9 and in the SE booklet, and science materials were included in booklets 2, 4, 6, 8, 9 and in the SE booklet.

Figure 8

Example of numbers of students assessed in the three domains, by booklet

Booklet	Reading	Mathematics	Science
1	100	100	
2	100		100
3	100	100	
4	100		100
5	100	100	
6	100		100
7	100		
8	100	100	100
9	100	100	100
SE	100	100	100

One tenth of the students were assessed with the SE booklet. If mathematics or science data are analysed with the reading weights, then the students assessed with the SE booklets will represent one sixth (100 out of 600), while they should represent one tenth.

Thus, the mathematics weight factor is given as:

1.0 for each student assigned the special education booklet;

1.8 for each student assigned one of the nine rotated booklets that contain mathematics material;

0.0 for each student assigned one of the nine rotated booklets that contain no mathematics material.

If these adjustment factors are applied to the data presented in the previous example, students assessed with booklet 1 will count for 180 students, students assessed with booklet 3 will also count for 180 students, and so on. On the other hand, students assessed with the SE booklet will still count for 100. Therefore, students assessed with the SE booklet will represent one tenth.

Similarly, the science weight factor is given as:

1.0 for each student assigned the special education booklet;

1.8 for each student assigned one of the nine rotated booklets that contain science material;

0.0 for each student assigned one of the nine rotated booklets that contain no science material.

WesVar®

WesVar® is a statistical package that computes estimates and their variance estimates from survey data using replication methods. The information generated can then be used to estimate sampling errors for different types of survey statistics. It can be used in conjunction with a wide range of complex sample designs, including multistage, stratified, and unequal probability samples. For further information: <http://www.westat.com/wesvar>.

FURTHER READING

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APPENDIX 1 STUDENT QUESTIONNAIRE

ST01Q01 **Q 1 On what date were you born?**

ST01Q02 (Please write in the day, month and year you were born.)

ST01Q03 <_____> 198 ____>
Day Month Year

ST02Q01 **Q 2 What <grade> are you in?**

_____ <grade>

ST03Q01 **Q 3 Are you <female> or <male>?**

<Female> <Male>

☐₁

☐₂

Q 4 Who usually lives at <home> with you?

(Please <tick> only one box on each row.)

ST04Q01 a) Mother

Yes

No

☐₁

☐₂

ST04Q02 b) Other female guardian (e.g., stepmother or foster mother)

☐₁

☐₂

ST04Q03 c) Father

☐₁

☐₂

ST04Q04 d) Other male guardian (e.g., stepfather or foster father)

☐₁

☐₂

ST04Q05 e) Brother(s) (including stepbrothers)

☐₁

☐₂

ST04Q06 f) Sister(s) (including stepsisters)

☐₁

☐₂

ST04Q07 g) Grandparent(s)

☐₁

☐₂

ST04Q08 h) Others

☐₁

☐₂

Q 5 How many brothers and sisters do you have?

(Please <tick> only one box on each row. When appropriate, remember to <tick> the 'None' box.)

ST05Q01 a) Older than you

None

One

Two

Three

Four or more

☐₁

☐₂

☐₃

☐₄

☐₅

ST05Q02 b) Younger than you

☐₁

☐₂

☐₃

☐₄

☐₅

ST05Q03 c) Same age as you

☐₁

☐₂

☐₃

☐₄

☐₅

ST06Q01

Q 6 What is your mother currently doing?

(Please <tick> only one box.)

Working full-time <for pay> ☐₁

Working part-time <for pay> ☐₂

Not working, but looking for a job ☐₃

Other (e.g. home duties, retired) ☐₄

ST07Q01

Q 7 What is your father currently doing?

(Please <tick> only one box.)

Working full-time <for pay> ☐₁

Working part-time <for pay> ☐₂

Not working, but looking for a job ☐₃

Other (e.g. home duties, retired) ☐₄

Q 8 What is your mother's main job? (e.g., <School teacher, nurse, sales manager>)

If she is not working now, please tell us her last main job.

Please write in the job title

ST09Q01

Q 9 What does your mother do in her main job?

(e.g., <Teaches high school students, cares for patients, manages a sales team>)

If she is not working now, please tell us her last main job.

Please use a sentence to describe the kind of work she does or did in that job

.....

Q 10 What is your father's main job? (e.g., <School teacher, carpenter, sales manager>)

If he is not working now, please tell us his last main job.

Please write in the job title

ST11Q01

Q 11 What does your father do in his main job?

(e.g., <Teaches high school students, builds houses, manages a sales team>)

If he is not working now, please tell us his last main job.

Please use a sentence to describe the kind of work he does or did in that job

.....

ST12Q01

Q 12 Did your mother complete <ISCED 3A>?

(Please <tick> only one box.)

- No, she did not go to school ☐₁
- No, she completed <ISCED level 1> only ☐₂
- No, she completed <ISCED level 2> only ☐₃
- No, she completed <ISCED level 3B or 3C> only ☐₄
- Yes, she completed <ISCED level 3A> ☐₅

ST13Q01

Q 13 Did your father complete <ISCED 3A>?

(Please <tick> only one box.)

- No, he did not go to school ☐₁
- No, he completed <ISCED level 1> only ☐₂
- No, he completed <ISCED level 2> only ☐₃
- No, he completed <ISCED level 3B or 3C> only ☐₄
- Yes, he completed <ISCED level 3A> ☐₅

ST14Q01

Q 14 Did your mother complete <ISCED 5A, 5B, 6>?

(Please <tick> only one box.)

- Yes No
- ☐₁ ☐₂

ST15Q01

Q 15 Did your father complete <ISCED 5A, 5B, 6>?

(Please <tick> only one box.)

- Yes No
- ☐₁ ☐₂

Q 16 In what country were you and your parents born?

(Please <tick> only one box on each row.)

ST16Q01

a) You ☐₁ <Country of test> ☐₂ Another Country

ST16Q02

b) Mother ☐₁ ☐₂

ST16Q03

c) Father ☐₁ ☐₂

ST17Q01

Q 17 What language do you speak at home most of the time?

(Please <tick> only one box.)

- | | |
|--|---------------------------------------|
| <Test language> | <input type="checkbox"/> ₁ |
| <Other official national languages> | <input type="checkbox"/> ₂ |
| <Other national dialects or languages> | <input type="checkbox"/> ₃ |
| <Other languages> | <input type="checkbox"/> ₄ |

Q 18 During the past year, how often have you participated in these activities?

(Please <tick> only one box on each row.)

- | | | <i>Never or
hardly
ever</i> | <i>Once or
twice
a year</i> | <i>About 3
or 4 times
a year</i> | <i>More than
4 times
a year</i> |
|---------|--|---------------------------------------|---------------------------------------|--|---|
| ST18Q01 | a) Gone to the <pictures>. | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ |
| ST18Q02 | b) Visited a museum or art gallery. | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ |
| ST18Q03 | c) Attended a popular music concert. | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ |
| ST18Q04 | d) Attended an opera, ballet or
classical symphony concert. | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ |
| ST18Q05 | e) Watched live theatre. | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ |
| ST18Q06 | f) Attended sporting events. | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ |

Q 19 In general, how often do your parents:

(Please <tick> only one box on each row.)

- | | | <i>Never or
hardly
ever</i> | <i>A few
times a
year</i> | <i>About
once a
month</i> | <i>Several
times a
month</i> | <i>Several
times a
week</i> |
|---------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| ST19Q01 | a) discuss political or social issues
with you? | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ | <input type="checkbox"/> ₅ |
| ST19Q02 | b) discuss books, films or television
programmes with you? | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ | <input type="checkbox"/> ₅ |
| ST19Q03 | c) listen to classical music with you? | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ | <input type="checkbox"/> ₅ |
| ST19Q04 | d) discuss how well you are doing
at school? | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ | <input type="checkbox"/> ₅ |
| ST19Q05 | e) eat <the main meal> with you
around a table? | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ | <input type="checkbox"/> ₅ |
| ST19Q06 | f) spend time just talking to you? | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ | <input type="checkbox"/> ₄ | <input type="checkbox"/> ₅ |

Q 20 How often do the following people work with you on your <schoolwork>?

(Please <tick> only one box on each row.)

		<i>Never or hardly ever</i>	<i>A few times a year</i>	<i>About once a month</i>	<i>Several times a month</i>	<i>Several times a week</i>
ST20Q01	a) Your mother	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST20Q02	b) Your father	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST20Q03	c) Your brothers and sisters	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST20Q04	d) Grandparents	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST20Q05	e) Other relations	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST20Q06	f) Friends of your parents	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 21 In your home, do you have:

(Please <tick> only one box on each row.)

		<i>Yes</i>	<i>No</i>
ST21Q01	a) a dishwasher?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q02	b) a room of your own?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q03	c) educational software?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q04	d) a link to the Internet?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q05	e) a dictionary?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q06	f) a quiet place to study?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q07	g) a desk for study?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q08	h) text books?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q09	i) classic literature (<i>e.g.</i> , <Shakespeare>)?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q10	j) books of poetry?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
ST21Q11	k) works of art (<i>e.g.</i> , paintings)?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

Q 22 How many of these do you have at your home?

(Please <tick> only one box on each row.)

		<i>None</i>	<i>One</i>	<i>Two</i>	<i>Three or more</i>
ST22Q01	a) <Cellular> phone	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST22Q02	b) Television	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST22Q03	c) Calculator	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST22Q04	d) Computer	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST22Q05	e) Musical instrument (<i>e.g.</i> , piano, violin)	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST22Q06	f) Motor car	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST22Q07	g) Bathroom	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 23 During the last three years, have you attended any of these special courses at your school to improve your results?

(Please <tick> only one box on each row.)

		<u>No, never</u>	<u>Yes, sometimes</u>	<u>Yes, regularly</u>
ST23Q01	a) <Extension> or additional courses	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST23Q02	b) <Remedial> courses in <test language>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST23Q03	c) <Remedial> courses in other subjects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST23Q04	d) Training to improve your study skills	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

Q 24 During the last three years, have you attended any of these special courses outside of your school to improve your results?

(Please <tick> only one box on each row.)

		<u>No, never</u>	<u>Yes, sometimes</u>	<u>Yes, regularly</u>
ST24Q01	a) Courses in <test language>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST24Q02	b) Courses in other subjects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST24Q03	c) <Extension> or additional courses	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST24Q04	d) <Remedial> courses in <test language>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST24Q05	e) <Remedial> courses in other subjects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST24Q06	f) Training to improve your study skills	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
ST24Q07	g) <Private tutoring>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

Q 25 What <programme> are you in at school?

(Please <tick> only one box.)

ST25Q01	<ISCED 2A>	<input type="checkbox"/> ₁
	<ISCED 2B>	<input type="checkbox"/> ₂
	<ISCED 2C>	<input type="checkbox"/> ₃
	<ISCED 3A>	<input type="checkbox"/> ₄
	<ISCED 3B>	<input type="checkbox"/> ₅
	<ISCED 3C>	<input type="checkbox"/> ₆

Q 26 How often do these things happen in your <test language> lessons?

(Please <tick> only one box on each row.)

		<u>Never</u>	<u>Some lessons</u>	<u>Most lessons</u>	<u>Every lesson</u>
ST26Q01	a) The teacher has to wait a long time for students to <quieten down>.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q02	b) The teacher wants students to work hard.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q03	c) The teacher tells students that they can do better.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q04	d) The teacher does not like it when students deliver <careless> work.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q05	e) The teacher shows an interest in every student's learning.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q06	f) The teacher gives students an opportunity to express opinions.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q07	g) The teacher helps students with their work.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q08	h) The teacher continues teaching until the students understand.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q09	i) The teacher does a lot to help students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q10	j) The teacher helps students with their learning.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q11	k) The teacher checks students' homework.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q12	l) Students cannot work well.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q13	m) Students don't listen to what the teacher says.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q14	n) Students don't start working for a long time after the lesson begins.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q15	o) Students have to learn a lot.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q16	p) There is noise and disorder.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST26Q17	q) At the start of class, more than five minutes are spent doing nothing.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 27 In the last full week you were in school, how many <class periods> did you spend in:

(Please write in the number of class periods.)

		<u>Total number</u>	<u>Does this number apply for most of the school year</u>	
ST27Q01	a) <test language>?	_____	Yes <input type="checkbox"/> ₁	No <input type="checkbox"/> ₂
ST27Q02				
ST27Q03	b) <mathematics> <in total>?	_____	Yes <input type="checkbox"/> ₁	No <input type="checkbox"/> ₂
ST27Q04				
ST27Q05	c) <science> <in total>?	_____	Yes <input type="checkbox"/> ₁	No <input type="checkbox"/> ₂
ST27Q06				

Q 28 On average, about how many students are in your:

(Please write in the average number of students in each class.)

		<u>Average number</u>
ST28Q01	a) <test language class(es)>?	_____
ST28Q02	b) <mathematics class(es)>?	_____
ST28Q03	c) <science class(es)>?	_____

Q 29 How many times in the previous two school weeks did you:

(Please <tick> only one box on each row.)

		<u>None</u>	<u>1 or 2</u>	<u>3 or 4</u>	<u>5 or more</u>
ST29Q01	a) miss school?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST29Q02	b) <skip> classes?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST29Q03	c) arrive late for school?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 30 How much do you disagree or agree with each of the following statements about teachers at your school?

(Please <tick> only one box on each row.)

		<u>Strongly disagree</u>	<u>Disagree</u>	<u>Agree</u>	<u>Strongly agree</u>
ST30Q01	a) Students get along well with most teachers.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST30Q02	b) Most teachers are interested in students' well-being.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST30Q03	c) Most of my teachers really listen to what I have to say.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST30Q04	d) If I need extra help, I will receive it from my teachers.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST30Q05	e) Most of my teachers treat me fairly.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 31 My school is a place where:

(Please <tick> only one box on each row.)

		<u>Strongly disagree</u>	<u>Disagree</u>	<u>Agree</u>	<u>Strongly agree</u>
ST31Q01	a) I feel like an outsider (or left out of things).	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q02	b) I make friends easily.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q03	c) I feel like I belong.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q04	d) I feel awkward and out of place.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q05	e) other students seem to like me.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q06	f) I feel lonely.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q07	g) I do not want to go.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST31Q08	h) I often feel bored.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 32 Please indicate how often each of these applies to you.

(Please <tick> only one box on each row.)

		<u>Never</u>	<u>Sometimes</u>	<u>Most of the time</u>	<u>Always</u>
ST32Q01	a) I complete my homework on time.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST32Q02	b) I do my homework while watching television.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST32Q03	c) My teachers grade my homework.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST32Q04	d) I finish my homework during the school day.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST32Q05	e) My teachers make useful comments on my homework.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST32Q06	f) I am given interesting homework.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST32Q07	g) My homework is counted as part of my <marks>.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 33 On average, how much time do you spend each week on homework and study in these subject areas?

(Please <tick> only one box on each row.)

When answering include time at the weekend too.

		<u>No time</u>	<u>Less than 1 hour a week</u>	<u>Between 1 hour and 3 hours a week</u>	<u>3 hours or more a week</u>
ST33Q01	a) <test language>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST33Q02	b) <mathematics>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST33Q03	c) <science>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 34 Each day, about how much time do you usually spend reading for enjoyment?

(Please <tick> only one box.)

ST34Q01	I do not read for enjoyment.	<input type="checkbox"/> ₁
	30 minutes or less each day.	<input type="checkbox"/> ₂
	More than 30 minutes to less than 60 minutes each day.	<input type="checkbox"/> ₃
	1 to 2 hours each day.	<input type="checkbox"/> ₄
	More than 2 hours each day.	<input type="checkbox"/> ₅

Q 35 How much do you disagree or agree with these statements about reading?

(Please <tick> only one box on each row.)

		<u>Strongly disagree</u>	<u>Disagree</u>	<u>Agree</u>	<u>Strongly agree</u>
ST35Q01	a) I read only if I have to.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q02	b) Reading is one of my favourite hobbies.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q03	c) I like talking about books with other people.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q04	d) I find it hard to finish books.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q05	e) I feel happy if I receive a book as a present.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q06	f) For me, reading is a waste of time.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q07	g) I enjoy going to a bookstore or a library.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q08	h) I read only to get information that I need.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
ST35Q09	i) I cannot sit still and read for more than a few minutes.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 36 How often do you read these materials because you want to?

(Please <tick> only one box on each row.)

		<u>Never or hardly ever</u>	<u>A few times a year</u>	<u>About once a month</u>	<u>Several times a month</u>	<u>Several times a week</u>
ST36Q01	a) Magazines.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST36Q02	b) Comic books.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST36Q03	c) Fictions (novels, narratives, stories).	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST36Q04	d) Non-fiction books.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST36Q05	e) Emails and Web pages.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
ST36Q06	f) Newspapers.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

ST37Q01	Q 37 How many books are there in your home?											
	<i>There are usually about <40 books per metre> of shelving. Do not include magazines.</i>											
	<i>(Please <tick> only one box.)</i>											
	None.	<input type="checkbox"/>	1									
	1-10 books.	<input type="checkbox"/>	2									
	11-50 books.	<input type="checkbox"/>	3									
	51-100 books.	<input type="checkbox"/>	4									
	101-250 books.	<input type="checkbox"/>	5									
	251-500 books.	<input type="checkbox"/>	6									
	More than 500 books.	<input type="checkbox"/>	7									
<hr/>												
ST38Q01	Q 38 How often do you borrow books to read for pleasure from a public or school library?											
	<i>(Please <tick> only one box.)</i>											
	Never or hardly ever.	<input type="checkbox"/>	1									
	A few times per year.	<input type="checkbox"/>	2									
	About once a month.	<input type="checkbox"/>	3									
	Several times a month.	<input type="checkbox"/>	4									
<hr/>												
ST39Q01	Q 39 At your school, about how often do you use:											
	<i>(Please <tick> only one box on each row.)</i>											
		<u>Never or hardly ever</u>	<u>A few times a year</u>	<u>About once a month</u>	<u>Several times a month</u>	<u>Several times a week</u>						
	a) school library?	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	4	<input type="checkbox"/>	5	
	ST39Q02	b) computers?	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	4	<input type="checkbox"/>	5
	ST39Q03	c) calculators?	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	4	<input type="checkbox"/>	5
ST39Q04	d) Internet?	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	4	<input type="checkbox"/>	5	
ST39Q05	e) <science> laboratories?	<input type="checkbox"/>	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>	4	<input type="checkbox"/>	5	
<hr/>												
ST40Q01	Q 40 What kind of job do you expect to have when you are about 30 years old?											
	Write the job title:											

Q 41 In your last school report, what <mark> did you receive in the following subjects?

- | | | |
|---------|--------------------|-------|
| ST41Q01 | a) <Test language> | _____ |
| ST41Q02 | b) <Mathematics> | _____ |
| ST41Q03 | c) <Science> | _____ |

Q 41 In your last school report, how did your <mark> compare with the <pass mark> in each subject area?

(Please <tick> only one box on each row.)

- | | | <u>Above the
<pass mark></u> | <u>At the
<pass mark></u> | <u>Below the
<pass mark></u> |
|---------|--------------------|--|---------------------------------------|--|
| ST41Q04 | a) <Test language> | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ |
| ST41Q05 | b) <Mathematics> | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ |
| ST41Q06 | c) <Science> | <input type="checkbox"/> ₁ | <input type="checkbox"/> ₂ | <input type="checkbox"/> ₃ |

APPENDIX 2 CROSS CURRICULUM COMPETENCIES QUESTIONNAIRE

Q1 How often do these things apply to you?

(Please <tick> only one box on each row.)

		<u>Almost never</u>	<u>Sometimes</u>	<u>Often</u>	<u>Almost always</u>
CC01Q01	1) When I study, I try to memorise everything that might be covered.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q02	2) I'm certain I can understand the most difficult material presented in texts.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q03	3) When I study, I start by figuring out exactly what I need to learn.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q04	4) When I sit myself down to learn something really difficult, I can learn it.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q05	5) When I study, I memorise as much as possible.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q06	6) I study to increase my job opportunities.				
CC01Q07	7) When studying, I work as hard as possible.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q08	8) I'm confident I can understand the most complex material presented by the teacher.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q09	9) When I study, I try to relate new material to things I have learned in other subjects.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q10	10) When I study, I memorise all new material so that I can recite it.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q11	11) If I decide not to get any bad grades, I can really do it.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q12	12) When studying, I keep working even if the material is difficult.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC11Q13	13) When I study, I force myself to check to see if I remember what I have learned.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC11Q14	14) I study to ensure that my future will be financially secure.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q15	15) When I study, I practise by saying the material to myself over and over.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q16	16) If I decide not to get any problems wrong, I can really do it.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q17	17) When I study, I figure out how the information might be useful in the real world.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

		<i>Almost never</i>	<i>Sometimes</i>	<i>Often</i>	<i>Almost always</i>
CC01Q18	18) I'm confident I can do an excellent job on assignments and tests.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q19	19) When I study, I try to figure out which concepts I still haven't really understood.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q20	20) When studying, I try to do my best to acquire the knowledge and skills taught.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q21	21) When I study, I try to understand the material better by relating it to things I already know.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q22	22) I study to get a good job.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q23	23) When I study, I make sure that I remember the most important things.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q24	24) If I want to learn something well, I can.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q25	25) When I study, I figure out how the material fits in with what I have already learned.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q26	26) I'm certain I can master the skills being taught.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q27	27) When I study, and I don't understand something I look for additional information to clarify this.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC01Q28	28) When studying, I put forth my best effort.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q2 How much do you disagree or agree with each of the following?

(Please <tick> only one box on each row.)

		<i>Disagree</i>	<i>Disagree somewhat</i>	<i>Agree Somewhat</i>	<i>Agree</i>
CC02Q01	29) When I do mathematics, I sometimes get totally absorbed.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q02	30) I like to work with other students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q03	31) I learn things quickly in most school subjects.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q04	32) I like to try to be better than other students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q05	33) I'm hopeless in <test language> classes.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q06	34) Because reading is fun, I wouldn't want to give it up.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q07	35) I'm good at most school subjects.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q08	36) I learn most when I work with other students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

		<u>Disagree</u>	<u>Disagree somewhat</u>	<u>Agreee Somewhat</u>	<u>Agreee</u>
CC02Q09	37) I learn things quickly in <test language> class.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q10	38) Because doing mathematics is fun, I wouldn't want to give it up.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q11	39) Trying to be better than others makes me work well.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q12	40) I get good marks in mathematics.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q13	41) I read in my spare time.				
CC02Q14	42) I do my best work when I work with other students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q15	43) Mathematics is one of my best subjects.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q16	44) I would like to be the best at something.				
CC02Q17	45) When I read, I sometimes get totally absorbed.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q18	46) I have always done well in mathematics.				
CC02Q19	47) I like to help other people do well in a group.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q20	48) I do well in tests in most school subjects.				
CC02Q21	49) Mathematics is important to me personally.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q22	50) It is helpful to put together everyone's ideas when working on a project.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q23	51) I get good marks in <test language>.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
CC02Q24	52) I learn faster if I'm trying to do better than the others.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

APPENDIX 3 COMPUTER FAMILIARITY QUESTIONNAIRE

Q 1 How often is there a computer available to you to use at these places?

(<Tick> one box on each line.)

		<u>Almost every day</u>	<u>A few times each week</u>	<u>Between once a week and once a month</u>	<u>Less than once a month</u>	<u>Never</u>
IT01Q01	a) At home.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT01Q02	b) At school.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT01Q03	c) In the library that you use.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT01Q04	d) At another place.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 2 How comfortable:

(<Tick> one box on each line.)

		<u>Very comfortable</u>	<u>Comfortable</u>	<u>Somewhat comfortable</u>	<u>Not at all comfortable</u>
IT02Q01	a) are you with using a computer?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
IT02Q02	b) are you with using a computer to write a paper?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
IT02Q03	c) would you be taking a test on a computer?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 3 If you compare yourself with other 15-year-olds, how would you rate your ability to use a computer?

<u>Excellent</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 4 How often do you use a computer:

(<Tick> one box on each line.)

		<u>Almost every day</u>	<u>A few times each week</u>	<u>Between once a week and once a month</u>	<u>Less than once a month</u>	<u>Never</u>
IT04Q01	a) at home?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT04Q02	b) at school?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT04Q03	c) in the library that you use?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT04Q04	d) at another place?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 5 How often do you use:

(*<Tick> one box on each line.*)

		<i>Almost every day</i>	<i>A few times each week</i>	<i>Between once a week and once a month</i>	<i>Less than once a month</i>	<i>Never</i>
IT05Q01	a) the Internet?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT05Q02	b) a computer for electronic communication (<i>e.g.</i> e-mail or “chat rooms”)?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT05Q03	c) the computer to help you learn school material?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT05Q04	d) the computer for programming?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 6 How often do you use each of the following kinds of computer software?

(*<Tick> one box on each line.*)

		<i>Almost every day</i>	<i>A few times each week</i>	<i>Between once a week and once a month</i>	<i>Less than once a month</i>	<i>Never</i>
IT06Q01	a) Games.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT06Q02	b) Word processing (<i>e.g.</i> Word ® or Word Perfect®).	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT06Q03	c) Spreadsheets (<i>e.g.</i> Lotus 1 2 3 ® or Microsoft Excel®).	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT06Q04	d) Drawing, painting or graphics.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
IT06Q05	e) Educational software.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 7 It is very important to me to work with a computer.

Yes *No*
☐₁ ☐₂

Q 8 To play or work with a computer is really fun.

Yes *No*
☐₁ ☐₂

Q 9 I use a computer because I am very interested in this.

Yes *No*
☐₁ ☐₂

Q 10 I forget the time, when I am working with the computer.

Yes *No*
☐₁ ☐₂

APPENDIX 4 SCHOOL QUESTIONNAIRE

SC01Q01

Q 1 Which of the following best describes the community in which your school is located?

(Please <tick> only one box.)

A <village, hamlet or rural area> (fewer than 3 000 people). ☐₁

A <small town> (3 000 to about 15 000 people). ☐₂

A <town> (15 000 to about 100 000 people). ☐₃

A <city> (100 000 to about 1 000 000 people). ☐₄

Close to the centre of a <city> with over 1 000 000 people. ☐₅

Elsewhere in a <city> with over 1 000 000 people. ☐₆

SC02Q01

SC02Q02

Q 2 As at <March 31, 2000>, what was the total school enrolment (number of students)?

<reminder note>

(Please write in a number on each row. Write 0 (zero) if there is none.)

a) Number of boys: _____

b) Number of girls: _____

SC03Q01

Q 3 Is your school a <public> or a <private> school?

(Please <tick> only one box.)

A <public> school ☐₁
(This is a school managed directly or indirectly by a public education authority, government agency, or governing board appointed by government or elected by public franchise.)

A <private> school ☐₂
(This is a school managed directly or indirectly by a non-government organisation; e.g., a church, trade union, businesses, other private institutions.)

SC04Q01

SC04Q02

Q 4 About what percentage of your total funding for a typical school year comes from the following sources?

<reminder note>

(Please write in a number on each row. Write 0 (zero) if there is none.)

Percentage

a) Government (includes departments, local, regional, state and national). _____ %

b) Student fees or school charges paid by parents. _____ %

		<u>Percentage</u>
SC04Q03	c) Benefactors, donations, bequests, sponsorships, parent fund raising.	_____ %
SC04Q04	d) Other.	_____ %
	Total	100 %

Q 5 Are the following <grade levels> found in your school?

(Please <tick> one box on each row.)

		<u>Yes</u>	<u>No</u>
SC05Q01	a) <Grade 1>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q02	b) <Grade 2>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q03	c) <Grade 3>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q04	d) <Grade 4>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q05	e) <Grade 5>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q06	f) <Grade 6>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q07	g) <Grade 7>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q08	h) <Grade 8>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q09	i) <Grade 9>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q10	j) <Grade 10>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q11	k) <Grade 11>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q12	l) <Grade 12>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q13	m) <Grade 13>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC05Q14	n) <Ungraded school>	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

Q 6 The following question refers to different aspects of instructional time for 15-year-old students in your school.

<If 15-year-olds are in different programmes or <grades>, choose the one where most of the 15-year-olds are located.>

(Please write in a number on each row. Write 0 (zero) if there is none.)

SC06Q01	a) How many instructional <u>weeks</u> are there in the school <u>year</u> ? _____ weeks
SC06Q02	b) How many <class periods> are there in the school <u>week</u> ? _____ <class periods>
SC06Q03	c) How many instructional <u>minutes</u> are there in the _____ minutes average single <class period>?

Q 7 How often are the following factors considered when students are admitted to your school?

(Please <tick> one box on each row.)

		<u>Never</u>	<u>Sometimes</u>	<u>Always</u>
SC07Q01	a) Residence in a particular area.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC07Q02	b) Student's record of academic performance (including placement tests).	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC07Q03	c) Recommendation of feeder schools.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC07Q04	d) Parents' endorsement of the instructional or religious philosophy of the school.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC07Q05	e) Whether the student requires or is interested in a special programme.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC07Q06	f) Preference given to family members of current or former students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC07Q07	g) Other.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

Q 8 In your school, what percentage of 15-year-old students is studying each programme?

<Reminder note>

(Please write in a number on each row. Write 0 (zero) if there is none.)

		<u>Percentage</u>
SC08Q01	a) <ISCED 2A>	_____ %
SC08Q02	b) <ISCED 2B>	_____ %
SC08Q03	c) <ISCED 2C>	_____ %
SC08Q04	d) <ISCED 3A>	_____ %
SC08Q05	e) <ISCED 3B>	_____ %
SC08Q06	f) <ISCED 3C>	_____ %
	Total	100 %

Q 9 In your school, how important is each of the following factors in determining the study programme of <15-year-old students>?

(Please <tick> one box on each row.)

		<u>Not important</u>	<u>Important</u>	<u>Very important</u>
SC09Q01	a) Students' choice.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC09Q02	b) Students' previous academic record.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC09Q03	c) A placement examination.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC09Q04	d) Teachers' recommendation.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC09Q05	e) Parents' or guardians' request.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

Q 10 In your school, how likely is it that a <15-year-old student> would be transferred to another school because of:

(Please <tick> one box on each row.)

If students are never transferred, go to Q 11.

		<u>Not likely</u>	<u>Likely</u>	<u>Very likely</u>
SC10Q01	a) low academic achievement.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC10Q02	b) high academic achievement.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC10Q03	c) behavioural problems.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC10Q04	d) special learning needs.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC10Q05	e) parents' or guardians' request.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
SC10Q06	f) other.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

Q 11 In your school, how much is the learning of <15-year-old students> hindered by:

(Please <tick> one box on each row.)

		<u>Not at all</u>	<u>Very little</u>	<u>To some extent</u>	<u>A lot</u>
SC11Q01	a) poor condition of buildings?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q02	b) poor heating, cooling and/or lighting systems?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q03	c) lack of instructional space (e.g., classrooms)?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q04	d) lack of instructional material (e.g., textbooks)?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q05	e) not enough computers for instruction?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q06	f) lack of instructional materials in the library?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q07	g) lack of multi-media resources for instruction?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q08	h) inadequate science laboratory equipment?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC11Q09	i) inadequate facilities for the fine arts?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 12 For <15-year-old students>, does your school provide the following resources?

(Please <tick> one box on each row.)

		<u>Yes</u>	<u>No</u>
SC12Q01	a) Extra courses on academic subjects for gifted students.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC12Q02	b) Special training in <test language> for low achievers.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC12Q03	c) Special courses in study skills for low achievers.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC12Q04	d) Special tutoring by staff members.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC12Q05	e) Room(s) where the students can do their homework with staff help.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

Q 13 In your school, about how many computers are:

<reminder note>

(Please write in a number on each row. Write 0 (zero) if there is none.)

		<u>Number</u>
SC13Q01	a) in the school altogether?	_____
SC13Q02	b) available to 15-year-old students?	_____
SC13Q03	c) available only to teachers?	_____
SC13Q04	d) available only to administrative staff?	_____
SC13Q05	e) connected to the Internet/ World Wide Web?	_____
SC13Q06	f) connected to a local area network (LAN, Intranet)?	_____

Q 14 In your school, how many full-time and part-time teachers:

A full-time teacher is employed at least 90% of the time as a classroom teacher. All other teachers should be considered part-time.

Note that categories b) to i) are not mutually exclusive, so the total item a) may be less than the sum of items b) to i).

<reminder note>

(Please write in a number in each space provided. Write 0 (zero) if there is none.)

		<u>Full-time</u>	<u>Part-time</u>
SC14Q01	a) are there in TOTAL?	_____	_____
SC14Q02			
SC14Q03	b) have a <ISCED5A> qualification in <pedagogy>?	_____	_____
SC14Q04			
SC14Q05	c) are fully certified as teachers by <the appropriate authority>?	_____	_____
SC14Q06			
SC14Q07	d) are <test language> teachers?	_____	_____
SC14Q08			
SC14Q09	e) have a <ISCED5A> qualification <with a major>	_____	_____
SC14Q10	in <test language>?		
SC14Q11	f) are <mathematics> teachers?	_____	_____
SC14Q12			
SC14Q13	g) have a <ISCED5A> qualification <with a major>	_____	_____
SC14Q14	in <mathematics>?		
SC14Q15	h) are <science> teachers?	_____	_____
SC14Q16			
SC14Q17	i) have a <ISCED5A> qualification <with a major>	_____	_____
SC14Q18	in <science>?		

SC15Q01

Q 15 During the last three months, what percentage of teaching staff in your school have attended a programme of professional development?

<reminder note>

Professional development is a formal programme designed to enhance teaching skills or pedagogical practices. It may or may not lead to a recognised qualification. The total length of the programme must last for at least one day and have a focus on teaching and education.

_____ %

Q 16 Generally, in your school how often are <15-year-old students> assessed using:

(Please <tick> one box in each row.)

		<u>Never</u>	<u>Yearly</u>	<u>2 times a year</u>	<u>3 times a year</u>	<u>4 or more times a year</u>
SC16Q01	a) standardised tests?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC16Q02	b) teacher-developed tests?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC16Q03	c) teachers' judgmental ratings?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC16Q04	d) student <portfolios>?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC16Q05	e) student assignments/projects/homework?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 17 In your school, about how often is information on the performance of <15-year-old students> formally communicated to:

(Please <tick> one box on each row.)

		<u>Never</u>	<u>Yearly</u>	<u>2 times a year</u>	<u>3 times a year</u>	<u>4 or more times a year</u>
SC17Q01	a) parents?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC17Q02	b) school <principal>?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC17Q03	c) <district/government administrators>?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

Q 18 In your school, are assessments of <15-year-old students> used to:

(Please <tick> one box on each row.)

		<u>Yes</u>	<u>No</u>
SC18Q01	a) inform parents about their child's progress?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC18Q02	b) make decisions about retention or promotion?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC18Q03	c) group students for instructional purposes?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC18Q04	d) compare the school to <district or national> performance?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC18Q05	e) monitor the school's progress from year to year?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
SC18Q06	f) make judgments about teachers' effectiveness?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

Q 19 In your school, is the learning of <15-year-old students> hindered by:

(Please <tick> one box on each row.)

		<u>Not at all</u>	<u>Very little</u>	<u>To some extent</u>	<u>A lot</u>
SC19Q01	a) low expectations of teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q02	b) student absenteeism?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q03	c) poor student-teacher relations?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q04	d) teacher turnover?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q05	e) lack of parental support for student learning at home?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q06	f) disruption of classes by students?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q07	g) teachers not meeting individual students' needs?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q08	h) teacher absenteeism?				
SC19Q09	i) students skipping classes?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q10	j) students lacking respect for teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q11	k) staff resisting change?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q12	l) not enough instructional time?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q13	m) the use of alcohol or illegal drugs?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q14	n) teachers being too strict with students?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q15	o) students intimidating or bullying other students?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q16	p) students not being encouraged to achieve their full potential?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC19Q17	q) students coming from poor home environments?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 20 Think about the teachers in your school. How much do you agree or disagree with the following statements?

(Please <tick> one box on each row.)

		<u>Strongly agree</u>	<u>Disagree</u>	<u>Agreee</u>	<u>Strongly Disagree</u>
SC20Q01	a) The morale of teachers in this school is high.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC20Q02	b) Teachers work with enthusiasm.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC20Q03	c) Teachers take pride in this school.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC20Q04	d) Teachers value academic achievement.	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 21 In your school, is the learning of <15-year-old students> hindered by:

(Please <tick> one box on each row.)

		<u>Not at all</u>	<u>A little</u>	<u>Somewhat</u>	<u>A lot</u>
SC21Q01	a) a shortage/inadequacy of teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC21Q02	b) a shortage/inadequacy of <test language> teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC21Q03	c) a shortage/inadequacy of <mathematics> teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC21Q04	d) a shortage/inadequacy of <science> teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
SC21Q05	e) a shortage/inadequacy of support personnel for classroom teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

Q 22 In your school, who has the main responsibility for:

(Please <tick> as many boxes as appropriate on each row.)

		<u>Not a school responsibility</u>	<u>Appointed or elected board</u>	<u>Principal</u>	<u>Department head</u>	<u>Teachers</u>
SC22Q01	a) hiring teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q02	b) firing teachers?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q03	c) establishing teachers' starting salaries?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q04	d) Determining teachers' salary increases?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q05	e) formulating the school budget?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q06	f) deciding on budget allocations within the school?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q07	g) establishing student disciplinary policies?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q08	h) establishing student assessment policies?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q09	i) approving students for admittance to school?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q10	j) choosing which textbooks are used?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q11	k) determining course content?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
SC22Q12	l) deciding which courses are offered?	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

APPENDIX 5 STUDENT QUESTIONNAIRE DATA FILE CODEBOOK

COUNTRY	Country three-digit code	(A3)	2-4	ST04Q03	Father - Q4c	(F1.0)	32-32
SCHOOLID	School ID (unique)	(A5)	5-9		1 Yes		
STIDSTD	Student ID	(A5)	10-14		2 No		
SUBNATIO	Subnational entities	(A2)	16-17		7 N/A		
					8 M/R		
					9 Mis		
ST01Q01	Birth Day - Q1 Day	(A2)	19-20	ST04Q04	Male Guardian - Q4d	(F1.0)	33-33
	97 N/A				1 Yes		
	99 Mis				2 No		
ST01Q02	Birth Month - Q1 Month	(A2)	21-22		7 N/A		
	97 N/A				8 M/R		
	99 Mis				9 Mis		
ST01Q03	Birth Year - Q1 Year	(A4)	23-26	ST04Q05	Brothers - Q4e	(F1.0)	34-34
	9997 N/A				1 Yes		
	9999 Mis				2 No		
ST02Q01	Grade - Q2	(F2.0)	27-28		7 N/A		
	97 N/A				8 M/R		
	99 Mis				9 Mis		
ST03Q01	Sex - Q3	(F1.0)	29-29	ST04Q06	Sisters - Q4f	(F1.0)	35-35
	1 Female				1 Yes		
	2 Male				2 No		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
ST04Q01	Mother - Q4a	(F1.0)	30-30	ST04Q07	Grandparents - Q4g	(F1.0)	36-36
	1 Yes				1 Yes		
	2 No				2 No		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
ST04Q02	Female Guardian - Q4b	(F1.0)	31-31	ST04Q08	Others - Q4h	(F1.0)	37-37
	1 Yes				1 Yes		
	2 No				2 No		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		

ST05Q01	Older - Q5a	(F1.0) 38-38	ST07Q01	Father currently doing - Q7	(F1.0) 42-42
	1 None			1 Working full-time	
	2 One			2 Working part-time	
	3 Two			3 Looking for job	
	4 Three			4 Other	
	5 Four or more			7 N/A	
	7 N/A			8 M/R	
	8 M/R			9 Mis	
	9 Mis		ST09Q01	Mother's main job - Q8&9	(A4) 43-46
ST05Q02	Younger - Q5b	(F1.0) 39-39		9997 N/A	
	1 None			9999 MIS	
	2 One		ST11Q01	Father's main job - Q10&11	(A4) 47-50
	3 Two			9997 N/A	
	4 Three			9999 MIS	
	5 Four or more		ST12Q01	Mother's secondary educ - Q12	(F1.0) 51-51
	7 N/A			1 Didn't go to school	
	8 M/R			2 Completed ISCED 1	
	9 Mis			3 Completed ISCED 2	
ST05Q03	Same age - Q5c	(F1.0) 40-40		4 Completed ISCED 3B 3C	
	1 None			5 Completed ISCED 3A	
	2 One			7 N/A	
	3 Two			8 M/R	
	4 Three			9 Mis	
	5 Four or more		ST13Q01	Father's secondary educ - Q13	(F1.0) 52-52
	7 N/A			1 Didn't go to school	
	8 M/R			2 Completed ISCED 1	
	9 Mis			3 Completed ISCED 2	
ST06Q01	Mother currently doing - Q6	(F1.0) 41-41		4 Completed ISCED 3B 3C	
	1 Working full-time			5 Completed ISCED 3A	
	2 Working part-time			7 N/A	
	3 Looking for job			8 M/R	
	4 Other			9 Mis	
	7 N/A		ST14Q01	Mother's tertiary educ - Q14	(F1.0) 53-53
	8 M/R			1 Yes	
	9 Mis			2 No	
				7 N/A	
				8 M/R	
				9 Mis	

ST15Q01	<i>Father's tertiary educ - Q15</i> (F1.0) 54-54	1 Yes	ST18Q02	<i>Art gallery - Q18b</i> (F1.0) 60-60	1 Never
		2 No			2 1 or 2 times a year
		7 N/A			3 3 or 4 times a year
		8 M/R			4 More 4 times a year
		9 Mis			7 N/A
ST16Q01	<i>Country of birth, self - Q16a</i> (F1.0) 55-55	1 <Country of Test>			8 M/R
		2 Other			9 Mis
		7 N/A	ST18Q03	<i>Pop Music - Q18c</i> (F1.0) 61-61	1 Never
		8 M/R			2 1 or 2 times a year
		9 Mis			3 3 or 4 times a year
ST16Q02	<i>Country of birth, Mother - Q16b</i> (F1.0) 56-56	1 <Country of Test>			4 More 4 times a year
		2 Other			7 N/A
		7 N/A			8 M/R
		8 M/R			9 Mis
		9 Mis	ST18Q04	<i>Opera - Q18d</i> (F1.0) 62-62	1 Never
ST16Q03	<i>Country of birth, Father - Q16c</i> (F1.0) 57-57	1 <Country of Test>			2 1 or 2 times a year
		2 Other			3 3 or 4 times a year
		7 N/A			4 More 4 times a year
		8 M/R			7 N/A
		9 Mis			8 M/R
ST17Q01	<i>Language at home - Q17</i> (F1.0) 58-58	1 <Test language>			9 Mis
		2 <Other official languages>	ST18Q05	<i>Theatre - Q18e</i> (F1.0) 63-63	1 Never
		3 <National Dialects>			2 1 or 2 times a year
		4 <Other Languages>			3 3 or 4 times a year
		7 N/A			4 More 4 times a year
		8 M/R			7 N/A
		9 Mis			8 M/R
ST18Q01	<i>Movies - Q18a</i> (F1.0) 59-59	1 Never			9 Mis
		2 1 or 2 times a year	ST18Q06	<i>Sport - Q18f</i> (F1.0) 64-64	1 Never
		3 3 or 4 times a year			2 1 or 2 times a year
		4 More 4 times a year			3 3 or 4 times a year
		7 N/A			4 More 4 times a year
		8 M/R			7 N/A
		9 Mis			8 M/R
					9 Mis

ST19Q01	<i>Discuss politics - Q19a</i> (F1.0) 65-65	ST19Q05	<i>Eat <main meal> - Q19e</i> (F1.0) 69-69
1	Never	1	Never
2	Few times/year	2	Few times/year
3	Once a month	3	Once a month
4	Several times/month	4	Several times/month
5	Several times/week	5	Several times/week
7	N/A	7	N/A
8	M/R	8	M/R
9	Mis	9	Mis
ST19Q02	<i>Discuss books - Q19b</i> (F1.0) 66-66	ST19Q06	<i>Just talking - Q19f</i> (F1.0) 70-70
1	Never	1	Never
2	Few times/year	2	Few times/year
3	Once a month	3	Once a month
4	Several times/month	4	Several times/month
5	Several times/week	5	Several times/week
7	N/A	7	N/A
8	M/R	8	M/R
9	Mis	9	Mis
ST19Q03	<i>Listen classics - Q19c</i> (F1.0) 67-67	ST20Q01	<i>Mother - Q20a</i> (F1.0) 71-71
1	Never	1	Never
2	Few times/year	2	Few times/year
3	Once a month	3	Once a month
4	Several times/month	4	Several times/month
5	Several times/week	5	Several times/week
7	N/A	7	N/A
8	M/R	8	M/R
9	Mis	9	Mis
ST19Q04	<i>Discuss school issues - Q19d</i> (F1.0) 68-68	ST20Q02	<i>Father - Q20b</i> (F1.0) 72-72
1	Never	1	Never
2	Few times/year	2	Few times/year
3	Once a month	3	Once a month
4	Several times/month	4	Several times/month
5	Several times/week	5	Several times/week
7	N/A	7	N/A
8	M/R	8	M/R
9	Mis	9	Mis

ST20Q03	<i>Siblings - Q20c</i>	(F1.0) 73-73	ST21Q01	<i>Dishwasher - Q21a</i>	(F1.0) 77-77
	1	Never		1	Yes
	2	Few times/year		2	No
	3	Once a month		7	N/A
	4	Several times/month		8	M/R
	5	Several times/week		9	Mis
	7	N/A	ST21Q02	<i>Own room - Q21b</i>	(F1.0) 78-78
	8	M/R		1	Yes
	9	Mis		2	No
ST20Q04	<i>Grandparents - Q20d</i>	(F1.0) 74-74		7	N/A
	1	Never		8	M/R
	2	Few times/year		9	Mis
	3	Once a month	ST21Q03	<i>Educational software - Q21c</i>	(F1.0) 79-79
	4	Several times/month		1	Yes
	5	Several times/week		2	No
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis
ST20Q05	<i>Other Relations - Q20e</i>	(F1.0) 75-75	ST21Q04	<i>Internet - Q21d</i>	(F1.0) 80-80
	1	Never		1	Yes
	2	Few times/year		2	No
	3	Once a month		7	N/A
	4	Several times/month		8	M/R
	5	Several times/week		9	Mis
	7	N/A	ST21Q05	<i>Dictionary - Q21e</i>	(F1.0) 81-81
	8	M/R		1	Yes
	9	Mis		2	No
ST20Q06	<i>Parents' friends - Q20f</i>	(F1.0) 76-76		7	N/A
	1	Never		8	M/R
	2	Few times/year		9	Mis
	3	Once a month	ST21Q06	<i>Study place - Q21f</i>	(F1.0) 82-82
	4	Several times/month		1	Yes
	5	Several times/week		2	No
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis

ST21Q07	<i>Desk - Q21g</i>	(F1.0) 83-83	ST22Q02	<i>Television - Q22b</i>	(F1.0) 89-89
	1 Yes			1 None	
	2 No			2 One	
	7 N/A			3 Two	
	8 M/R			4 3 or more	
	9 Mis			7 N/A	
ST21Q08	<i>Text books - Q21h</i>	(F1.0) 84-84		8 M/R	
	1 Yes			9 Mis	
	2 No		ST22Q03	<i>Calculator - Q22c</i>	(F1.0) 90-90
	7 N/A			1 None	
	8 M/R			2 One	
	9 Mis			3 Two	
ST21Q09	<i>Classic literature - Q21i</i>	(F1.0) 85-85		4 3 or more	
	1 Yes			7 N/A	
	2 No			8 M/R	
	7 N/A			9 Mis	
	8 M/R		ST22Q04	<i>Computer - Q22d</i>	(F1.0) 91-91
	9 Mis			1 None	
ST21Q10	<i>Poetry - Q21j</i>	(F1.0) 86-86		2 One	
	1 Yes			3 Two	
	2 No			4 3 or more	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST21Q11	<i>Art works - Q21k</i>	(F1.0) 87-87	ST22Q05	<i>Musical instruments - Q22e</i>	(F1.0) 92-92
	1 Yes			1 None	
	2 No			2 One	
	7 N/A			3 Two	
	8 M/R			4 3 or more	
	9 Mis			7 N/A	
ST22Q01	<i>Phone - Q22a</i>	(F1.0) 88-88		8 M/R	
	1 None			9 Mis	
	2 One		ST22Q06	<i>Car - Q22f</i>	(F1.0) 93-93
	3 Two			1 None	
	4 3 or more			2 One	
	7 N/A			3 Two	
	8 M/R			4 3 or more	
	9 Mis			7 N/A	
				8 M/R	
				9 Mis	

ST22Q07	Bathroom - Q22g	(F1.0)	94-94	ST24Q01	In <test language> - Q24a	(F1.0)	99-99
	1	None			1	Never	
	2	One			2	Some	
	3	Two			3	Regular	
	4	3 or more			7	N/A	
	7	N/A			8	M/R	
	8	M/R			9	Mis	
	9	Mis					
ST23Q01	<Extension> - Q23a	(F1.0)	95-95	ST24Q02	In other subjects - Q24b	(F1.0)	100-100
	1	Never			1	Never	
	2	Some			2	Some	
	3	Regular			3	Regular	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
ST23Q02	<Remedial> in <test lang> - Q23b	(F1.0)	96-96	ST24Q03	<Extension> - Q24c	(F1.0)	101-101
	1	Never			1	Never	
	2	Some			2	Some	
	3	Regular			3	Regular	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
ST23Q03	<Remedial> in other subjects - Q23c	(F1.0)	97-97	ST24Q04	<Remedial> in <test language> - Q24d	(F1.0)	102-102
	1	Never			1	Never	
	2	Some			2	Some	
	3	Regular			3	Regular	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
ST23Q04	Skills training - Q23d	(F1.0)	98-98	ST24Q05	<Remedial> in other subjects - Q24e	(F1.0)	103-103
	1	Never			1	Never	
	2	Some			2	Some	
	3	Regular			3	Regular	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	

ST24Q06	<i>Skills training - Q24f</i>	(F1.0) 104-104	ST26Q03	<i>Teachers tell students do better - Q26c</i>	(F1.0) 109-109
	1 Never			1 Never	
	2 Some			2 Some lessons	
	3 Regular			3 Most lessons	
	7 N/A			4 Every lesson	
	8 M/R			7 N/A	
	9 Mis			8 M/R	
ST24Q07	<i><Private tutoring> - Q24g</i>	(F1.0) 105-105		9 Mis	
	1 Never		ST26Q04	<i>Teachers don't like - Q26d</i>	(F1.0) 110-110
	2 Some			1 Never	
	3 Regular			2 Some lessons	
	7 N/A			3 Most lessons	
	8 M/R			4 Every lesson	
	9 Mis			7 N/A	
ST25Q01	<i>School program - Q25</i>	(F1.0) 106-106		8 M/R	
	1 <ISCED 2A>			9 Mis	
	2 <ISCED 2B>		ST26Q05	<i>Teachers show interest - Q26e</i>	(F1.0) 111-111
	3 <ISCED 2C>			1 Never	
	4 <ISCED 3A>			2 Some lessons	
	5 <ISCED 3B>			3 Most lessons	
	6 <ISCED 3C>			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST26Q01	<i>Teachers wait long time - Q26a</i>	(F1.0) 107-107	ST26Q06	<i>Teachers give opportunity - Q26f</i>	(F1.0) 112-112
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST26Q02	<i>Teachers want students to work - Q26b</i>	(F1.0) 108-108	ST26Q07	<i>Teachers help with work - Q26g</i>	(F1.0) 113-113
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	

ST26Q08	<i>Teachers continue teaching - Q26h</i> (F1.0) 114-114		ST26Q13	<i>Students don't listen - Q26m</i> (F1.0) 119-119	
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST26Q09	<i>Teachers do a lot to help- Q26i</i> (F1.0) 115-115		ST26Q14	<i>Students don't start - Q26n</i> (F1.0) 120-120	
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST26Q10	<i>Teachers help with learning - Q26j</i> (F1.0) 116-116		ST26Q15	<i>Students learn a lot - Q26o</i> (F1.0) 121-121	
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST26Q11	<i>Teachers check homework - Q26k</i> (F1.0) 117-117		ST26Q16	<i>Noise & disorder - Q26p</i> (F1.0) 122-122	
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST26Q12	<i>Students cannot work well - Q26l</i> (F1.0) 118-118		ST26Q17	<i>Doing nothing - Q26q</i> (F1.0) 123-123	
	1 Never			1 Never	
	2 Some lessons			2 Some lessons	
	3 Most lessons			3 Most lessons	
	4 Every lesson			4 Every lesson	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	

ST27Q01	Hours in <test language> - Q27a (F2.0) 124-125		ST29Q01	Miss school - Q29a (F1.0) 139-139	
	97 N/A			1 None	
	99 Mis			2 1 or 2	
ST27Q02	Usual in <test language> - Q27aa (F1.0) 126-126			3 3 or 4	
	1 Yes			4 5 or more	
	2 No			7 N/A	
	7 N/A			8 M/R	
	8 M/R			9 Mis	
	9 Mis		ST29Q02	<Skip> classes - Q29b (F1.0) 140-140	
ST27Q03	Hours in Mathematics - Q27b			1 None	
	97 N/A			2 1 or 2	
	99 MIS			3 3 or 4	
ST27Q04	Usual in Mathematics - Q27bb (F1.0) 129-129			4 5 or more	
	1 Yes			7 N/A	
	2 No			8 M/R	
	7 N/A			9 Mis	
	8 M/R		ST29Q03	Late for school - Q29c (F1.0) 141-141	
	9 Mis			1 None	
ST27Q05	Hours in Science - Q27c (F2.0) 130-131			2 1 or 2	
	97 N/A			3 3 or 4	
	99 MIS			4 5 or more	
ST27Q06	Usual in Science - Q27cc (F1.0) 132-132			7 N/A	
	1 Yes			8 M/R	
	2 No			9 Mis	
	7 N/A		ST30Q01	Well with teachers - Q30a (F1.0) 142-142	
	8 M/R			1 Strongly disagree	
	9 Mis			2 Disagree	
ST28Q01	Number of students in <test language> - Q28a (F2.0) 133-134			3 Agree	
	97 N/A			4 Strongly agree	
	99 Mis			7 N/A	
ST28Q02	Number of students in Mathematics - Q28b (F2.0) 135-136			8 M/R	
	97 N/A			9 Mis	
	99 Mis		ST30Q02	Interested in students - Q30b (F1.0) 143-143	
ST28Q03	Number of students in Science - Q28c (F2.0) 137-138			1 Strongly disagree	
	97 N/A			2 Disagree	
	99 Mis			3 Agree	
				4 Strongly agree	
				7 N/A	
				8 M/R	
				9 Mis	

ST30Q03	<i>Listen to me - Q30c</i>	(F1.0) 144-144	ST31Q03	<i>Feel I belong - Q31c</i>	(F1.0) 149-149
	1 Strongly disagree			1 Strongly disagree	
	2 Disagree			2 Disagree	
	3 Agree			3 Agree	
	4 Strongly agree			4 Strongly agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST30Q04	<i>Give extra help - Q30d</i>	(F1.0) 145-145	ST31Q04	<i>Feel awkward - Q31d</i>	(F1.0) 150-150
	1 Strongly disagree			1 Strongly disagree	
	2 Disagree			2 Disagree	
	3 Agree			3 Agree	
	4 Strongly agree			4 Strongly agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST30Q05	<i>Treat me fairly - Q30e</i>	(F1.0) 146-146	ST31Q05	<i>Seem to like me - Q31e</i>	(F1.0) 151-151
	1 Strongly disagree			1 Strongly disagree	
	2 Disagree			2 Disagree	
	3 Agree			3 Agree	
	4 Strongly agree			4 Strongly agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST31Q01	<i>Feel an outsider - Q31a</i>	(F1.0) 147-147	ST31Q06	<i>Feel lonely - Q31f</i>	(F1.0) 152-152
	1 Strongly disagree			1 Strongly disagree	
	2 Disagree			2 Disagree	
	3 Agree			3 Agree	
	4 Strongly agree			4 Strongly agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
ST31Q02	<i>Make friends - Q31b</i>	(F1.0) 148-148	ST31Q07	<i>Don't want to be - Q31g</i>	(F1.0) 153-153
	1 Strongly disagree			1 Strongly disagree	
	2 Disagree			2 Disagree	
	3 Agree			3 Agree	
	4 Strongly agree			4 Strongly agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	

ST31Q08	<i>Feel Bored - Q31h</i> (F1.0) 154-154	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST32Q01	<i>I complete on time - Q32a</i> (F1.0) 155-155	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST32Q02	<i>I do watching TV - Q32b</i> (F1.0) 156-156	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST32Q03	<i>Teachers grade - Q32c</i> (F1.0) 157-157	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST32Q04	<i>I finish at school - Q32d</i> (F1.0) 158-158	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST32Q05	<i>Teachers comment on - Q32e</i> (F1.0) 159-159	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST32Q06	<i>Is interesting - Q32f</i> (F1.0) 160-160	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST32Q07	<i>Is counted in <mark> - Q32g</i> (F1.0) 161-161	1 Never 2 Smtime 3 Mostly 4 Always 7 N/A 8 M/R 9 Mis
ST33Q01	<i>Homework <test language> - Q33a</i> (F1.0) 162-162	1 No time 2 < 1 h/week 3 1 to 3 h/week 4 > 3 h/week 7 N/A 8 M/R 9 Mis
ST33Q02	<i>Homework <maths> - Q33b</i> (F1.0) 163-163	1 No time 2 < 1 h/week 3 1 to 3 h/week 4 > 3 h/week 7 N/A 8 M/R 9 Mis

ST33Q03	<i>Homework</i> <science> - Q33c (F1.0) 164-164	1 No time 2 < 1 h/week 3 1 to 3 h/week 4 > 3 h/week 7 N/A 8 M/R 9 Mis
ST34Q01	<i>Read each day - Q34</i> (F1.0) 165-165	1 Don't read 2 30 min or less 3 31- 60 min 4 1-2 hours 5 More than 2 hours 7 N/A 8 M/R 9 Mis
ST35Q01	<i>Only if I have to - Q35a</i> (F1.0) 166-166	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q02	<i>Favourite hobby - Q35b</i> (F1.0) 167-167	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q03	<i>Talking about books - Q35c</i> (F1.0) 168-168	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q04	<i>Hard to finish - Q35d</i> (F1.0) 169-169	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q05	<i>Feel happy - Q35e</i> (F1.0) 170-170	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q06	<i>Waste of time - Q35f</i> (F1.0) 171-171	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q07	<i>Enjoy library - Q35g</i> (F1.0) 172-172	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis
ST35Q08	<i>For information - Q35h</i> (F1.0) 173-173	1 Strongly disagree 2 Disagree 3 Agree 4 Strongly agree 7 N/A 8 M/R 9 Mis

ST35Q09	<i>Few minutes only - Q35i</i>	(F1.0) 174-174	ST36Q04	<i>Non-fiction - Q36d</i>	(F1.0) 178-178
1	Strongly disagree		1	Never	
2	Disagree		2	Few times/year	
3	Agree		3	Once/month	
4	Strongly agree		4	Several times/month	
7	N/A		5	Several times/week	
8	M/R		7	N/A	
9	Mis		8	M/R	
			9	Mis	
ST36Q01	<i>Magazines - Q36a</i>	(F1.0) 175-175	ST36Q05	<i>E-mail & Web - Q36e</i>	(F1.0) 179-179
1	Never		1	Never	
2	Few times/year		2	Few times/year	
3	Once/month		3	Once/month	
4	Several times/month		4	Several times/month	
5	Several times/week		5	Several times/week	
7	N/A		7	N/A	
8	M/R		8	M/R	
9	Mis		9	Mis	
ST36Q02	<i>Comics - Q36b</i>	(F1.0) 176-176	ST36Q06	<i>Newspapers - Q36f</i>	(F1.0) 180-180
1	Never		1	Never	
2	Few times/year		2	Few times/year	
3	Once/month		3	Once/month	
4	Several times/month		4	Several times/month	
5	Several times/week		5	Several times/week	
7	N/A		7	N/A	
8	M/R		8	M/R	
9	Mis		9	Mis	
ST36Q03	<i>Fictions - Q36c</i>	(F1.0) 177-177	ST37Q01	<i>How many books at home - Q37</i>	(F2.0) 181-182
1	Never		1	None	
2	Few times/year		2	1-10	
3	Once/month		3	11-50	
4	Several times/month		4	51-100	
5	Several times/week		5	101-250	
7	N/A		6	251-500	
8	M/R		7	More than 500	
9	Mis		97	N/A	
			98	M/R	
			99	Mis	

ST38Q01	<i>Borrow books - Q38</i>	(F1.0) 183-183	ST39Q04	<i>How often use Internet – Q39d</i>	(F1.0) 187-187
	1	Never		1	Never
	2	Few times/year		2	Few times/year
	3	Once a month		3	Once/month
	4	Several times/month		4	Several times/month
	7	N/A		5	Several times/week
	8	M/R		7	N/A
	9	Mis		8	M/R
ST39Q01	<i>How often use school library - Q39a</i>	(F1.0) 184-184		9	Mis
	1	Never	ST39Q05	<i>How often use science labs – Q39e</i>	(F1.0) 188-188
	2	Few times/year		1	Never
	3	Once/month		2	Few times/year
	4	Several times/month		3	Once/month
	5	Several times/week		4	Several times/month
	7	N/A		5	Several times/week
	8	M/R		7	N/A
	9	Mis		8	M/R
ST39Q02	<i>How often use computers - Q39b</i>	(F1.0) 185-185		9	Mis
	1	Never	ST40Q01	<i>Job at 30 – Q40</i>	(A4) 189-192
	2	Few times/year		9997	N/A
	3	Once/month		9999	Mis
	4	Several times/month	ST41Q01	<i>Mark in <test lang> – Q41 numeric</i>	(F3.0) 193-195
	5	Several times/week		997	N/A
	7	N/A		999	Mis
	8	M/R	ST41Q02	<i>Mark in <maths> – Q41 numeric</i>	(F3.0) 196-198
	9	Mis		997	N/A
ST39Q03	<i>How often use calculators - Q39c</i>	(F1.0) 186-186		999	Mis
	1	Never	ST41Q03	<i>Mark in <science> – Q41 numeric</i>	(F3.0) 199-201
	2	Few times/year		997	N/A
	3	Once/month		999	Mis
	4	Several times/month			
	5	Several times/week			
	7	N/A			
	8	M/R			
	9	Mis			

ST41Q04	Mark in <test lang> - Q41 nominal (F1.0) 202-202	BMMJ	Two-digit SES Code Mother (F2.0) 209-210
	1 Above the pass mark	97	N/A
	2 At the pass mark	99	Mis
	3 Below the pass mark	BFMJ	Two-digit SES Code Father (F2.0) 211-212
	7 N/A	97	N/A
	8 M/R	99	Mis
	9 Mis		
ST41Q05	Mark in <maths> - Q41 nominal (F1.0) 203-203	BTHR	Two-digit SES Code Self (F2.0) 213-214
	1 Above the pass mark	97	N/A
	2 At the pass mark	99	Mis
	3 Below the pass mark	IT01Q01	At home - IT1a (F1.0) 216-216
	7 N/A	1	Every day
	8 M/R	2	Few times / week
	9 Mis	3	1-4 / month
ST41Q06	Mark in <science> - Q41 nominal (F1.0) 204-204	4	< 1 / Month
	1 Above the pass mark	5	Never
	2 At the pass mark	7	N/A
	3 Below the pass mark	8	M/R
	7 N/A	9	Mis
	8 M/R	IT01Q02	At school - IT1b (F1.0) 217-217
	9 Mis	1	Every day
ST41Q07	Mark in <test lang> - Q41 ordinal (F1.0) 205-205	2	Few times / week
	7 N/A	3	1-4 / month
	8 M/R	4	< 1 / Month
	9 Mis	5	Never
ST41Q08	Mark in <maths> - Q41 ordinal (F1.0) 206-206	7	N/A
	7 N/A	8	M/R
	8 M/R	9	Mis
	9 Mis	IT01Q03	In library - IT1c (F1.0) 218-218
ST41Q09	Mark in <science> - Q41 ordinal (F1.0) 207-207	1	Every day
	7 N/A	2	Few times / week
	8 M/R	3	1-4 / month
	9 Mis	4	< 1 / Month
		5	Never
		7	N/A
		8	M/R
		9	Mis

IT01Q04	<i>Another place - IT1d</i>	(F1.0) 219-219	IT04Q01	<i>At home - IT4a</i>	(F1.0) 224-224
	1	Every day		1	Every day
	2	Few times / week		2	Few times / week
	3	1-4 / month		3	1-4 / month
	4	< 1 / Month		4	< 1 / Month
	5	Never		5	Never
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis
IT02Q01	<i>Using - IT2a</i>	(F1.0) 220-220	IT04Q02	<i>At school - IT4b</i>	(F1.0) 225-225
	1	Very		1	Every day
	2	Just		2	Few times / week
	3	Somewhat		3	1-4 / month
	4	Not at all		4	< 1 / Month
	7	N/A		5	Never
	8	M/R		7	N/A
	9	Mis		8	M/R
IT02Q02	<i>Write paper - IT2b</i>	(F1.0) 221-221		9	Mis
	1	Very	IT04Q03	<i>In library - IT4c</i>	(F1.0) 226-226
	2	Just		1	Every day
	3	Somewhat		2	Few times / week
	4	Not at all		3	1-4 / month
	7	N/A		4	< 1 / Month
	8	M/R		5	Never
	9	Mis		7	N/A
IT02Q03	<i>Take test - IT2c</i>	(F1.0) 222-222		8	M/R
	1	Very		9	Mis
	2	Just	IT04Q04	<i>Another place - IT4d</i>	(F1.0) 227-227
	3	Somewhat		1	Every day
	4	Not at all		2	Few times / week
	7	N/A		3	1-4 / month
	8	M/R		4	< 1 / Month
	9	Mis		5	Never
IT03Q01	<i>Compare - IT3</i>	(F1.0) 223-223		7	N/A
	1	Excellent		8	M/R
	2	Good		9	Mis
	3	Fair			
	4	Poor			
	7	N/A			
	8	M/R			
	9	Mis			

IT05Q01	<i>Internet - IT5a</i>	(F1.0) 228-228	IT06Q01	<i>Games - IT6a</i>	(F1.0) 232-232
	1	Every day		1	Every day
	2	Few times / week		2	Few times / week
	3	1-4 / month		3	1-4 / month
	4	< 1 / Month		4	< 1 / Month
	5	Never		5	Never
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis
IT05Q02	<i>Communication - IT5b</i>	(F1.0) 229-229	IT06Q02	<i>Word proc - IT6b</i>	(F1.0) 233-233
	1	Every day		1	Every day
	2	Few times / week		2	Few times / week
	3	1-4 / month		3	1-4 / month
	4	< 1 / Month		4	< 1 / Month
	5	Never		5	Never
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis
IT05Q03	<i>Help learn - IT5c</i>	(F1.0) 230-230	IT06Q03	<i>Spreadsheet - IT6c</i>	(F1.0) 234-234
	1	Every day		1	Every day
	2	Few times / week		2	Few times / week
	3	1-4 / month		3	1-4 / month
	4	< 1 / Month		4	< 1 / Month
	5	Never		5	Never
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis
IT05Q04	<i>Programming - IT5d</i>	(F1.0) 231-231	IT06Q04	<i>Drawing - IT6d</i>	(F1.0) 235-235
	1	Every day		1	Every day
	2	Few times / week		2	Few times / week
	3	1-4 / month		3	1-4 / month
	4	< 1 / Month		4	< 1 / Month
	5	Never		5	Never
	7	N/A		7	N/A
	8	M/R		8	M/R
	9	Mis		9	Mis

IT06Q05	<i>Educational - IT6e</i>	(F1.0)	236-236	CC01Q02	<i>Understand - CC1 / 2</i>	(F1.0)	243-243
	1 Every day				1 Never		
	2 Few times / week				2 Some		
	3 1-4 / month				3 Often		
	4 < 1 / Month				4 Always		
	5 Never				7 N/A		
	7 N/A				8 M/R		
	8 M/R				9 Mis		
	9 Mis			CC01Q03	<i>Need to learn - CC1 / 3</i>	(F1.0)	244-244
IT07Q01	<i>Very important - IT7</i>	(F1.0)	237-237		1 Never		
	1 Yes				2 Some		
	2 No				3 Often		
	7 N/A				4 Always		
	8 M/R				7 N/A		
	9 Mis				8 M/R		
IT08Q01	<i>Play or work - IT8</i>	(F1.0)	238-238		9 Mis		
	1 Yes			CC01Q04	<i>Difficult - CC1 / 4</i>	(F1.0)	245-245
	2 No				1 Never		
	7 N/A				2 Some		
	8 M/R				3 Often		
	9 Mis				4 Always		
IT09Q01	<i>Very interested - IT9</i>	(F1.0)	239-239		7 N/A		
	1 Yes				8 M/R		
	2 No				9 Mis		
	7 N/A			CC01Q05	<i>Much as possible - CC1 / 5</i>	(F1.0)	246-246
	8 M/R				1 Never		
	9 Mis				2 Some		
IT10Q01	<i>Forget the time - IT10</i>	(F1.0)	240-240		3 Often		
	1 Yes				4 Always		
	2 No				7 N/A		
	7 N/A				8 M/R		
	8 M/R				9 Mis		
	9 Mis			CC01Q06	<i>Job- CC1 / 6</i>	(F1.0)	247-247
CC01Q01	<i>Memorise - CC1 / 1</i>	(F1.0)	242-242		1 Never		
	1 Never				2 Some		
	2 Some				3 Often		
	3 Often				4 Always		
	4 Always				7 N/A		
	7 N/A				8 M/R		
	8 M/R				9 Mis		
	9 Mis						

CC01Q07	<i>Work as hard - CC1/7</i>	(F1.0)	248-248	CC01Q12	<i>Keep Working - CC1/12</i>	(F1.0)	253-253
	1	Never			1	Never	
	2	Some			2	Some	
	3	Often			3	Often	
	4	Always			4	Always	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
CC01Q08	<i>Most Complex - CC1/8</i>	(F1.0)	249-249	CC01Q13	<i>Force myself - CC1/13</i>	(F1.0)	254-254
	1	Never			1	Never	
	2	Some			2	Some	
	3	Often			3	Often	
	4	Always			4	Always	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
CC01Q09	<i>Relate New - CC1/9</i>	(F1.0)	250-250	CC01Q14	<i>Future - CC1/14</i>	(F1.0)	255-255
	1	Never			1	Never	
	2	Some			2	Some	
	3	Often			3	Often	
	4	Always			4	Always	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
CC01Q10	<i>Recite - CC1/10</i>	(F1.0)	251-251	CC01Q15	<i>Over and over - CC1/15</i>	(F1.0)	256-256
	1	Never			1	Never	
	2	Some			2	Some	
	3	Often			3	Often	
	4	Always			4	Always	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	
CC01Q11	<i>Bad Grades - CC1/11</i>	(F1.0)	252-252	CC01Q16	<i>Problems wrong - CC1/16</i>	(F1.0)	257-257
	1	Never			1	Never	
	2	Some			2	Some	
	3	Often			3	Often	
	4	Always			4	Always	
	7	N/A			7	N/A	
	8	M/R			8	M/R	
	9	Mis			9	Mis	

CC01Q17	<i>Real world - CC1/17</i>	(F1.0)	258-258	CC01Q22	<i>Good job - CC1/22</i>	(F1.0)	263-263
	1 Never				1 Never		
	2 Some				2 Some		
	3 Often				3 Often		
	4 Always				4 Always		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
CC01Q18	<i>Excellent - CC1/18</i>	(F1.0)	259-259	CC01Q23	<i>Important- CC1/23</i>	(F1.0)	264-264
	1 Never				1 Never		
	2 Some				2 Some		
	3 Often				3 Often		
	4 Always				4 Always		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
CC01Q19	<i>Concepts - CC1/19</i>	(F1.0)	260-260	CC01Q24	<i>Learn well - CC1/24</i>	(F1.0)	265-265
	1 Never				1 Never		
	2 Some				2 Some		
	3 Often				3 Often		
	4 Always				4 Always		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
CC01Q20	<i>Best to acquire - CC1/20</i>	(F1.0)	261-261	CC01Q25	<i>Fits in - CC1/25</i>	(F1.0)	266-266
	1 Never				1 Never		
	2 Some				2 Some		
	3 Often				3 Often		
	4 Always				4 Always		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
CC01Q21	<i>Relating - CC1/21</i>	(F1.0)	262-262	CC01Q26	<i>Can master - CC1/26</i>	(F1.0)	267-267
	1 Never				1 Never		
	2 Some				2 Some		
	3 Often				3 Often		
	4 Always				4 Always		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		

CC01Q27	<i>Additional info - CC1/27</i>	(F1.0)	268-268	CC02Q04	<i>Better - CC2/32</i>	(F1.0)	273-273
1	Never			1	Disagree		
2	Some			2	Disagree some		
3	Often			3	Agree some		
4	Always			4	Agree		
7	N/A			7	N/A		
8	M/R			8	M/R		
9	Mis			9	Mis		
CC01Q28	<i>Best effort - CC1/Q28</i>	(F1.0)	269-269	CC02Q05	<i>Hopeless - CC2/33</i>	(F1.0)	274-274
1	Never			1	Disagree		
2	Some			2	Disagree some		
3	Often			3	Agree some		
4	Always			4	Agree		
7	N/A			7	N/A		
8	M/R			8	M/R		
9	Mis			9	Mis		
CC02Q01	<i>Math absorbed - CC2/29</i>	(F1.0)	270-270	CC02Q06	<i>Reading fun - CC2/34</i>	(F1.0)	275-275
1	Disagree			1	Disagree		
2	Disagree some			2	Disagree some		
3	Agree some			3	Agree some		
4	Agree			4	Agree		
7	N/A			7	N/A		
8	M/R			8	M/R		
9	Mis			9	Mis		
CC02Q02	<i>Like other - CC2/30</i>	(F1.0)	271-271	CC02Q07	<i>Good most - CC2/35</i>	(F1.0)	276-276
1	Disagree			1	Disagree		
2	Disagree some			2	Disagree some		
3	Agree some			3	Agree some		
4	Agree			4	Agree		
7	N/A			7	N/A		
8	M/R			8	M/R		
9	Mis			9	Mis		
CC02Q03	<i>Quickly in most - CC2/31</i>	(F1.0)	272-272	CC02Q08	<i>Learn most - CC2/36</i>	(F1.0)	277-277
1	Disagree			1	Disagree		
2	Disagree some			2	Disagree some		
3	Agree some			3	Agree some		
4	Agree			4	Agree		
7	N/A			7	N/A		
8	M/R			8	M/R		
9	Mis			9	Mis		

CC02Q09	<i>Learn quickly - CC2/37</i> (F1.0) 278-278		CC02Q14	<i>Best work - CC2/42</i> (F1.0) 283-283	
	1 Disagree			1 Disagree	
	2 Disagree some			2 Disagree some	
	3 Agree some			3 Agree some	
	4 Agree			4 Agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
CC02Q10	<i>Math fun - CC2/38</i> (F1.0) 279-279		CC02Q15	<i>Math best - CC2/43</i> (F1.0) 284-284	
	1 Disagree			1 Disagree	
	2 Disagree some			2 Disagree some	
	3 Agree some			3 Agree some	
	4 Agree			4 Agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
CC02Q11	<i>Trying better - CC2/39</i> (F1.0) 280-280		CC02Q16	<i>Like to be best - CC2/44</i> (F1.0) 285-285	
	1 Disagree			1 Disagree	
	2 Disagree some			2 Disagree some	
	3 Agree some			3 Agree some	
	4 Agree			4 Agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
CC02Q12	<i>Good marks Math</i> <i>- CC2/Q40</i> (F1.0) 281-281		CC02Q17	<i>Read absorbed - CC2/45</i> (F1.0) 286-286	
	1 Disagree			1 Disagree	
	2 Disagree some			2 Disagree some	
	3 Agree some			3 Agree some	
	4 Agree			4 Agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	
CC02Q13	<i>Read spare - CC2/41</i> (F1.0) 282-282		CC02Q18	<i>Done well - CC2/46</i> (F1.0) 287-287	
	1 Disagree			1 Disagree	
	2 Disagree some			2 Disagree some	
	3 Agree some			3 Agree some	
	4 Agree			4 Agree	
	7 N/A			7 N/A	
	8 M/R			8 M/R	
	9 Mis			9 Mis	

CC02Q19	<i>Help others - CC2/47</i>	(F1.0)	288-288		CC02Q24	<i>Learn faster - CC2/52</i>	(F1.0)	293-293
	1 Disagree					1 Disagree		
	2 Disagree some					2 Disagree some		
	3 Agree some					3 Agree some		
	4 Agree					4 Agree		
	7 N/A					7 N/A		
	8 M/R					8 M/R		
	9 Mis					9 Mis		
CC02Q20	<i>Well in tests - CC2/48</i>	(F1.0)	289-289		RMINS	<i>Minutes per week in language courses</i>	(F4.0)	295-298
	1 Disagree					9997 N/A		
	2 Disagree some					9999 Mis		
	3 Agree some							
	4 Agree				MMINS	<i>Minutes per week in math courses</i>	(F4.0)	299-302
	7 N/A					9997 N/A		
	8 M/R					9999 Mis		
	9 Mis							
CC02Q21	<i>Math important - CC2/49</i>	(F1.0)	290-290		SMINS	<i>Minutes per week in science courses</i>	(F4.0)	303-306
	1 Disagree					9997 N/A		
	2 Disagree some					9999 Mis		
	3 Agree some							
	4 Agree							
	7 N/A				AGE	<i>Student age in months</i>	(F3.0)	307-309
	8 M/R					997 Mis		
	9 Mis					997 N/A		
						998 Invalid A		
CC02Q22	<i>Helpful ideas - CC2/50</i>	(F1.0)	291-291		FAMSTRUC	<i>Family structure</i>	(F1.0)	310-310
	1 Disagree					1 Single		
	2 Disagree some					2 Nuclear		
	3 Agree some					3 Mixed		
	4 Agree					4 Other		
	7 N/A					7 Not Applicable		
	8 M/R					9 Missing		
	9 Mis							
CC02Q23	<i>Good marks - CC2/51</i>	(F1.0)	292-292		NSIB	<i>Number of siblings</i>	(F2.0)	311-312
	1 Disagree					97 N/A		
	2 Disagree some					98 Mis		
	3 Agree some					99 Mis		
	4 Agree							
	7 N/A				BRTHORD	<i>Birth order</i>	(F1.0)	313-313
	8 M/R					7 N/A		
	9 Mis					8 Mis		
						9 Mis		

ISEI	<i>Int. Socio-Econ Index of father or mother</i>	(F2.0)	314-315	TEACHSUP	<i>Teacher support</i>	(F5.2)	361-365
97	N/A			97	N/A		
98	Mis			DISCLIMA	<i>School disciplinary climate</i>	(F5.2)	366-370
99	Mis			97	N/A		
HISEI	<i>Highest Int. Socio-Econ. Index</i>	(F2.0)	316-317	STUDREL	<i>Teacher-student relationship</i>	(F5.2)	371-375
97	N/A			97	N/A		
98	Mis			ACHPRESS	<i>Achievement press</i>	(F5.2)	376-380
99	Mis			97	N/A		
FISCED	<i>Father ISCED qualification</i>	(F1.0)	318-318	BELONG	<i>Sense of belonging</i>	(F5.2)	381-385
7	N/A			97	N/A		
8	Mis			JOYREAD	<i>Enjoyment of Reading</i>	(F5.2)	386-390
9	Mis			97	N/A		
MISCED	<i>Mother ISCED qualification</i>	(F1.0)	319-319	DIVREAD	<i>Reading diversity</i>	(F5.2)	391-395
7	N/A			97	N/A		
8	Mis			COMAB	<i>Confort and ability with computer</i>	(F5.2)	397-401
9	Mis			97	N/A		
CULTCOM	<i>Cultural communication</i>	(F5.2)	321-325	COMUSE	<i>Computer usage and experience</i>	(F5.2)	402-406
97	N/A			97	N/A		
SOCCOM	<i>Social communication</i>	(F5.2)	326-330	COMATT	<i>Attitudes toward computers</i>	(F5.2)	407-411
97	N/A			97	N/A		
FAMEDSUP	<i>Family educational support</i>	(F5.2)	331-335	CSTRAT	<i>Control strategies</i>	(F5.2)	412-416
97	N/A			97	N/A		
WEALTH	<i>Family wealth</i>	(F5.2)	336-340	EFFPER	<i>Effort and perseverance</i>	(F5.2)	417-421
97	N/A			97	N/A		
HEDRES	<i>Home educational resources</i>	(F5.2)	341-345	MEMOR	<i>Memorisation</i>	(F5.2)	422-426
97	N/A			97	N/A		
CULTACTV	<i>Cultural activities of students</i>	(F5.2)	346-350	SELF EF	<i>Self efficacy</i>	(F5.2)	427-431
97	N/A			97	N/A		
CULTPOSS	<i>Cultural possession of the family</i>	(F5.2)	351-355	CEXP	<i>Control expectation</i>	(F5.2)	432-437
97	N/A			97	N/A		
HMWKTIME	<i>Time spent on homework</i>	(F5.2)	356-360	ELAB	<i>Elaboration</i>	(F5.2)	437-441
97	N/A			97	N/A		
				INSMOT	<i>Instrumental motivation</i>	(F5.2)	442-446
				97	N/A		

INTMAT	<i>Interest in Maths</i>	(F5.2)	447-451	WLEREAD3	<i>Warm estimate in reading - reflecting</i>	(F7.2)	539-545
	97 N/A				9997 N/A		
MATCON	<i>Mathematics self concept</i>	(F5.2)	452-456	WLERR_R3	<i>WLE measurement error for reading 3</i>	(F7.2)	546-552
	97 N/A				9997 N/A		
INTREA	<i>Interest in reading</i>	(F5.2)	457-461	WLESCIE	<i>Warm estimate in science</i>	(F7.2)	553-559
	97 N/A				9997 N/A		
SCACAD	<i>Self concept (academic)</i>	(F5.2)	462-466	WLERR_S	<i>WLE measurement error for science</i>	(F7.2)	560-566
	97 N/A				9997 N/A		
SCVERB	<i>Self concept (verbal)</i>	(F5.2)	467-471	PV1MATH	<i>Plausible value in mathematics</i>	(F7.2)	568-574
	97 N/A				9997 N/A		
COMLRN	<i>Competitive learning</i>	(F5.2)	472-476	PV2MATH	<i>Plausible value in mathematics</i>	(F7.2)	575-581
	97 N/A				9997 N/A		
COPLRN	<i>Co-operative learning</i>	(F5.2)	477-481	PV3MATH	<i>Plausible value in mathematics</i>	(F7.2)	582-588
	97 N/A				9997 N/A		
WLEMATH	<i>Warm estimate in mathematics</i>	(F7.2)	483-489	PV4MATH	<i>Plausible value in mathematics</i>	(F7.2)	589-595
	9997 N/A				9997 N/A		
WLERR_M	<i>WLE measurement error for mathematics</i>	(F7.2)	490-496	PV5MATH	<i>Plausible value in mathematics</i>	(F7.2)	596-602
	9997 N/A				9997 N/A		
WLEREAD	<i>Warm estimate in reading</i>	(F7.2)	497-503	PV1READ	<i>Plausible value in reading</i>	(F7.2)	603-609
	9997 N/A				9997 N/A		
WLERR_R	<i>WLE measurement error for reading</i>	(F7.2)	504-510	PV2READ	<i>Plausible value in reading</i>	(F7.2)	610-616
	9997 N/A				9997 N/A		
WLEREAD1	<i>Warm estimate in reading - retrieving</i>	(F7.2)	511-517	PV3READ	<i>Plausible value in reading</i>	(F7.2)	617-623
	9997 N/A				9997 N/A		
WLERR_R1	<i>WLE measurement error for reading 1</i>	(F7.2)	518-524	PV4READ	<i>Plausible value in reading</i>	(F7.2)	624-630
	9997 N/A				9997 N/A		
WLEREAD2	<i>Warm estimate in reading - interpreting</i>	(F7.2)	525-531	PV5READ	<i>Plausible value in reading</i>	(F7.2)	631-637
	9997 N/A				9997 N/A		
WLERR_R2	<i>WLE measurement error for reading 2</i>	(F7.2)	532-538				
	9997 N/A						

PV1READ1	Plausible value in reading - retrieving 9997 N/A	(F7.2) 638-644	PV4READ3	Plausible value in reading - reflecting 9997 N/A	(F7.2) 729-735
PV2READ1	Plausible value in reading - retrieving 9997 N/A	(F7.2) 645-651	PV5READ3	Plausible value in reading - reflecting 9997 N/A	(F7.2) 736-742
PV3READ1	Plausible value in reading - retrieving 9997 N/A	(F7.2) 652-658	PV1SCIE	Plausible value in science 9997 N/A	(F7.2) 743-749
PV4READ1	Plausible value in reading - retrieving 9997 N/A	(F7.2) 659-665	PV2SCIE	Plausible value in science 9997 N/A	(F7.2) 750-756
PV5READ1	Plausible value in reading - retrieving 9997 N/A	(F7.2) 666-672	PV3SCIE	Plausible value in science 9997 N/A	(F7.2) 757-763
PV1READ2	Plausible value in reading- interpreting 9997 N/A	(F7.2) 673-679	PV4SCIE	Plausible value in science 9997 N/A	(F7.2) 764-770
PV2READ2	Plausible value in reading- interpreting 9997 N/A	(F7.2) 680-686	PV5SCIE	Plausible value in science 9997 N/A	(F7.2) 771-777
PV3READ2	Plausible value in reading- interpreting 9997 N/A	(F7.2) 687-693	W_FSTUWT	Student final weight	(F9.4) 779-789
PV4READ2	Plausible value in reading- interpreting 9997 N/A	(F7.2) 694-700	W_MFAC	Weight adjustment factor for Mathematics	(F9.4) 788-796
PV5READ2	Plausible value in reading- interpreting 9997 N/A	(F7.2) 701-707	W_SFAC	Weight adjustment factor for Science	(F9.4) 797-805
PV1READ3	Plausible value in reading - reflecting 9997 N/A	(F7.2) 708-714	CNTMFAC	Country Math adjustment factor	(F9.7) 806-814
PV2READ3	Plausible value in reading - reflecting 9997 N/A	(F7.2) 715-721	CNTRFAC	Country Reading adjustment factor	(F9.7) 815-823
PV3READ3	Plausible value in reading - reflecting 9997 N/A	(F7.2) 722-728	CNTSFAC	Country Science adjustment factor	(F9.7) 824-832
			W_FSTR1	BRR replicate	(F9.4) 834-842
			W_FSTR2	BRR replicate	(F9.4) 843-851
			W_FSTR3	BRR replicate	(F9.4) 852-860
			W_FSTR4	BRR replicate	(F9.4) 861-869
			W_FSTR5	BRR replicate	(F9.4) 870-878
			W_FSTR6	BRR replicate	(F9.4) 879-887
			W_FSTR7	BRR replicate	(F9.4) 888-896
			W_FSTR8	BRR replicate	(F9.4) 897-905

W_FSTR9	<i>BRR replicate</i>	(F9.4)	906-914	W_FSTR40	<i>BRR replicate</i>	(F9.4)	1185-1193
W_FSTR10	<i>BRR replicate</i>	(F9.4)	915-923	W_FSTR41	<i>BRR replicate</i>	(F9.4)	1194-1202
W_FSTR11	<i>BRR replicate</i>	(F9.4)	924-932	W_FSTR42	<i>BRR replicate</i>	(F9.4)	1203-1211
W_FSTR12	<i>BRR replicate</i>	(F9.4)	933-941	W_FSTR43	<i>BRR replicate</i>	(F9.4)	1212-1220
W_FSTR13	<i>BRR replicate</i>	(F9.4)	942-950	W_FSTR44	<i>BRR replicate</i>	(F9.4)	1221-1229
W_FSTR14	<i>BRR replicate</i>	(F9.4)	951-959	W_FSTR45	<i>BRR replicate</i>	(F9.4)	1230-1238
W_FSTR15	<i>BRR replicate</i>	(F9.4)	960-968	W_FSTR46	<i>BRR replicate</i>	(F9.4)	1239-1247
W_FSTR16	<i>BRR replicate</i>	(F9.4)	969-977	W_FSTR47	<i>BRR replicate</i>	(F9.4)	1248-1256
W_FSTR17	<i>BRR replicate</i>	(F9.4)	978-986	W_FSTR48	<i>BRR replicate</i>	(F9.4)	1257-1265
W_FSTR18	<i>BRR replicate</i>	(F9.4)	987-995	W_FSTR49	<i>BRR replicate</i>	(F9.4)	1266-1274
W_FSTR19	<i>BRR replicate</i>	(F9.4)	996-1004	W_FSTR50	<i>BRR replicate</i>	(F9.4)	1275-1283
W_FSTR20	<i>BRR replicate</i>	(F9.4)	1005-1013	W_FSTR51	<i>BRR replicate</i>	(F9.4)	1284-1292
W_FSTR21	<i>BRR replicate</i>	(F9.4)	1014-1022	W_FSTR52	<i>BRR replicate</i>	(F9.4)	1293-1301
W_FSTR22	<i>BRR replicate</i>	(F9.4)	1023-1031	W_FSTR53	<i>BRR replicate</i>	(F9.4)	1302-1310
W_FSTR23	<i>BRR replicate</i>	(F9.4)	1032-1040	W_FSTR54	<i>BRR replicate</i>	(F9.4)	1311-1319
W_FSTR24	<i>BRR replicate</i>	(F9.4)	1041-1049	W_FSTR55	<i>BRR replicate</i>	(F9.4)	1320-1328
W_FSTR25	<i>BRR replicate</i>	(F9.4)	1050-1058	W_FSTR56	<i>BRR replicate</i>	(F9.4)	1329-1337
W_FSTR26	<i>BRR replicate</i>	(F9.4)	1059-1067	W_FSTR57	<i>BRR replicate</i>	(F9.4)	1338-1346
W_FSTR27	<i>BRR replicate</i>	(F9.4)	1068-1076	W_FSTR58	<i>BRR replicate</i>	(F9.4)	1347-1355
W_FSTR28	<i>BRR replicate</i>	(F9.4)	1077-1085	W_FSTR59	<i>BRR replicate</i>	(F9.4)	1356-1364
W_FSTR29	<i>BRR replicate</i>	(F9.4)	1086-1094	W_FSTR60	<i>BRR replicate</i>	(F9.4)	1365-1373
W_FSTR30	<i>BRR replicate</i>	(F9.4)	1095-1103	W_FSTR61	<i>BRR replicate</i>	(F9.4)	1374-1382
W_FSTR31	<i>BRR replicate</i>	(F9.4)	1104-1112	W_FSTR62	<i>BRR replicate</i>	(F9.4)	1383-1391
W_FSTR32	<i>BRR replicate</i>	(F9.4)	1113-1121	W_FSTR63	<i>BRR replicate</i>	(F9.4)	1392-1400
W_FSTR33	<i>BRR replicate</i>	(F9.4)	1122-1130	W_FSTR64	<i>BRR replicate</i>	(F9.4)	1401-1409
W_FSTR34	<i>BRR replicate</i>	(F9.4)	1131-1139	W_FSTR65	<i>BRR replicate</i>	(F9.4)	1410-1418
W_FSTR35	<i>BRR replicate</i>	(F9.4)	1140-1148	W_FSTR66	<i>BRR replicate</i>	(F9.4)	1419-1427
W_FSTR36	<i>BRR replicate</i>	(F9.4)	1149-1157	W_FSTR67	<i>BRR replicate</i>	(F9.4)	1428-1436
W_FSTR37	<i>BRR replicate</i>	(F9.4)	1158-1166	W_FSTR68	<i>BRR replicate</i>	(F9.4)	1437-1445
W_FSTR38	<i>BRR replicate</i>	(F9.4)	1167-1175	W_FSTR69	<i>BRR replicate</i>	(F9.4)	1446-1454
W_FSTR39	<i>BRR replicate</i>	(F9.4)	1176-1184	W_FSTR70	<i>BRR replicate</i>	(F9.4)	1455-1463

W_FSTR71	<i>BRR replicate</i>	(F9.4)	1464-1472
W_FSTR72	<i>BRR replicate</i>	(F9.4)	1473-1481
W_FSTR73	<i>BRR replicate</i>	(F9.4)	1482-1490
W_FSTR74	<i>BRR replicate</i>	(F9.4)	1491-1499
W_FSTR75	<i>BRR replicate</i>	(F9.4)	1500-1508
W_FSTR76	<i>BRR replicate</i>	(F9.4)	1509-1517
W_FSTR77	<i>BRR replicate</i>	(F9.4)	1518-1526
W_FSTR78	<i>BRR replicate</i>	(F9.4)	1527-1535
W_FSTR79	<i>BRR replicate</i>	(F9.4)	1536-1544
W_FSTR80	<i>BRR replicate</i>	(F9.4)	1545-1553
CNT	<i>Country alphanumeric code</i>	(A3)	1555-1557

APPENDIX 6 SCHOOL QUESTIONNAIRE CODEBOOK

COUNTRY	Country three-digit code (A3)	2-4	SC05Q01	Grade 1 - Q5a	(F1.0)	36-36
SCHOOLID	School ID (unique) (A5)	5-9		1 Yes		
SUBNATIO	Subnational entities (A2)	11-12		2 No		
				7 N/A		
SC01Q01	School location - Q1 (F1.0)	14-14		8 M/R		
	1 Village (less 3 000)			9 Mis		
	2 Small town (3 000 to 15 000)		SC05Q02	Grade 2 - Q5b	(F1.0)	37-37
	3 Town (15 000 to 100 000)			1 Yes		
	4 City (100 000 to 1 000 000)			2 No		
	5 City (more 1 000 000) centre			7 N/A		
	6 City (more 1 000 000) elsewhere			8 M/R		
	7 N/A			9 Mis		
	8 M/R					
	9 Mis		SC05Q03	Grade 3 - Q5c	(F1.0)	38-38
SC02Q01	Number of boys - Q2a (F4.0)	15-18		1 Yes		
	9997 N/A			2 No		
	9999 Mis			7 N/A		
SC02Q02	Number of girls - Q2b (F4.0)	19-22		8 M/R		
	9997 N/A			9 Mis		
	9999 Mis					
SC03Q01	School public/private - Q3 (F1.0)	23-23	SC05Q04	Grade 4 - Q5d	(F1.0)	39-39
	1 Public			1 Yes		
	2 Private			2 No		
	7 N/A			7 N/A		
	8 M/R			8 M/R		
	9 Mis			9 Mis		
SC04Q01	Funds, government - Q4a (F3.0)	24-26	SC05Q05	Grade 5 - Q5e	(F1.0)	40-40
	997 N/A			1 Yes		
	999 Mis			2 No		
SC04Q02	Funds, student fees - Q4b (F3.0)	27-29		7 N/A		
	997 N/A			8 M/R		
	999 Mis			9 Mis		
SC04Q03	Funds, benefactors - Q4c (F3.0)	30-32	SC05Q06	Grade 6 - Q5f	(F1.0)	41-41
	997 N/A			1 Yes		
	999 Mis			2 No		
SC04Q04	Funds, other - Q4d (F3.0)	33-35		7 N/A		
	997 N/A			8 M/R		
	999 Mis			9 Mis		

SC05Q07	Grade 7 - Q5g	(F1.0)	42-42	SC05Q13	Grade 13 - Q5m	(F1.0)	48-48
	1 Yes				1 Yes		
	2 No				2 No		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
SC05Q08	Grade 8 - Q5h	(F1.0)	43-43	SC05Q14	Ungraded- Q5n	(F1.0)	49-49
	1 Yes				1 Yes		
	2 No				2 No		
	7 N/A				7 N/A		
	8 M/R				8 M/R		
	9 Mis				9 Mis		
SC05Q09	Grade 9 - Q5i	(F1.0)	44-44	SC06Q01	Instructional weeks - Q6a	(F2.0)	50-51
	1 Yes				97 N/A		
	2 No				99 Mis		
	7 N/A			SC06Q02	Instructional periods - Q6b	(F2.0)	52-53
	8 M/R				97 N/A		
	9 Mis				99 Mis		
SC05Q10	Grade 10 - Q5j	(F1.0)	45-45	SC06Q03	Instructional minutes - Q6c	(F3.0)	54-56
	1 Yes				997 N/A		
	2 No				999 Mis		
	7 N/A			SC07Q01	Residence - Q7a	(F1.0)	57-57
	8 M/R				1 Never		
	9 Mis				2 Sometimes		
SC05Q11	Grade 11 - Q5k (F1.0)	46-46			3 Always		
	1 Yes				7 N/A		
	2 No				8 M/R		
	7 N/A				9 Mis		
	8 M/R			SC07Q02	Academic performance - Q7b	(F1.0)	58-58
	9 Mis				1 Never		
SC05Q12	Grade 12 - Q5l	(F1.0)	47-47		2 Sometimes		
	1 Yes				3 Always		
	2 No				7 N/A		
	7 N/A				8 M/R		
	8 M/R				9 Mis		
	9 Mis			SC07Q03	Feeder schools - Q7c	(F1.0)	59-59
					1 Never		
					2 Sometimes		
					3 Always		
					7 N/A		
					8 M/R		
					9 Mis		

SC07Q04	<i>Phylosophy and religion - Q7d</i> (F1.0) 60-60	
	1 Never	
	2 Sometimes	
	3 Always	
	7 N/A	
	8 M/R	
	9 Mis	
SC07Q05	<i>Special program - Q7e</i> (F1.0) 61-61	
	1 Never	
	2 Sometimes	
	3 Always	
	7 N/A	
	8 M/R	
	9 Mis	
SC07Q06	<i>Family preference - Q7f</i> (F1.0) 62-62	
	1 Never	
	2 Sometimes	
	3 Always	
	7 N/A	
	8 M/R	
	9 Mis	
SC07Q07	<i>Admittance factors, other - Q7g</i> (F1.0) 63-63	
	1 Never	
	2 Sometimes	
	3 Always	
	7 N/A	
	8 M/R	
	9 Mis	
SC08Q01	<i><ISCED 2A> - Q8a</i> (F3.0) 64-66	
	997 N/A	
	999 Mis	
SC08Q02	<i><ISCED 2B> - Q8b</i> (F3.0) 67-69	
	997 N/A	
	999 Mis	
SC08Q03	<i><ISCED 2C> - Q8c</i> (F3.0) 70-72	
	997 N/A	
	999 Mis	
SC08Q04	<i><ISCED 3A> - Q8d</i> (F3.0) 73-75	
	997 N/A	
	999 Mis	
SC08Q05	<i><ISCED 3B> - Q8e</i> (F3.0) 76-78	
	997 N/A	
	999 Mis	
SC08Q06	<i><ISCED 3C> - Q8f</i> (F3.0) 79-81	
	997 N/A	
	999 Mis	
SC09Q01	<i>Student's choice - Q9a</i> (F1.0) 82-82	
	1 Not important	
	2 Important	
	3 Very important	
	7 N/A	
	8 M/R	
	9 Mis	
SC09Q02	<i>Academic record - Q9b</i> (F1.0) 83-83	
	1 Not important	
	2 Important	
	3 Very important	
	7 N/A	
	8 M/R	
	9 Mis	
SC09Q03	<i>Placement exams - Q9c</i> (F1.0) 84-84	
	1 Not important	
	2 Important	
	3 Very important	
	7 N/A	
	8 M/R	
	9 Mis	
SC09Q04	<i>Teacher recommend - Q9d</i> (F1.0) 85-85	
	1 Not important	
	2 Important	
	3 Very important	
	7 N/A	
	8 M/R	
	9 Mis	
SC09Q05	<i>Parents' request - Q9e</i> (F1.0) 86-86	
	1 Not important	
	2 Important	
	3 Very important	
	7 N/A	
	8 M/R	
	9 Mis	

SC10Q01	Low achievement - Q10a	(F1.0) 87-87	1	Not likely
			2	Likely
			3	Very likely
			7	N/A
			8	M/R
			9	Mis
SC10Q02	High achievement - Q10b	(F1.0) 88-88	1	Not likely
			2	Likely
			3	Very likely
			7	N/A
			8	M/R
			9	Mis
SC10Q03	Behaviour - Q10c	(F1.0) 89-89	1	Not likely
			2	Likely
			3	Very likely
			7	N/A
			8	M/R
			9	Mis
SC10Q04	Special needs - Q10d	(F1.0) 90-90	1	Not likely
			2	Likely
			3	Very likely
			7	N/A
			8	M/R
			9	Mis
SC10Q05	Parents' request - Q10e	(F1.0) 91-91	1	Not likely
			2	Likely
			3	Very likely
			7	N/A
			8	M/R
			9	Mis
SC10Q06	Transfer reason, other - Q10f	(F1.0) 92-92	1	Not likely
			2	Likely
			3	Very likely
			7	N/A
			8	M/R
			9	Mis
SC11Q01	Poor buildings - Q11a	(F1.0) 93-93	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC11Q02	Poor heating - Q11b	(F1.0) 94-94	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC11Q03	Inadequate space - Q11c	(F1.0) 95-95	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC11Q04	Lack of instruct materials - Q11d	(F1.0) 96-96	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC11Q05	Lack of computers - Q11e	(F1.0) 97-97	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis

SC11Q06	<i>Poor library - Q11f</i>	(F1.0)	98-98	1	Not at all	SC12Q02	<i>Language training - Q12b</i>	(F1.0)	103-103
				2	A little				
				3	Some				
				4	A lot				
				7	N/A				
				8	M/R				
				9	Mis				
SC11Q07	<i>Poor multi-media Q11g</i>	(F1.0)	99-99	1	Not at all	SC12Q03	<i>Study skills - Q12c</i>	(F1.0)	104-104
				2	A little				
				3	Some				
				4	A lot				
				7	N/A				
				8	M/R				
				9	Mis				
SC11Q08	<i>Poor science equip - Q11h</i>	(F1.0)	100-100	1	Not at all	SC12Q04	<i>Special tutoring - Q12d</i>	(F1.0)	105-105
				2	A little				
				3	Some				
				4	A lot				
				7	N/A				
				8	M/R				
				9	Mis				
SC11Q09	<i>Poor art facilities - Q11i</i>	(F1.0)	101-101	1	Not at all	SC12Q05	<i>Help rooms - Q12e</i>	(F1.0)	106-106
				2	A little				
				3	Some				
				4	A lot				
				7	N/A				
				8	M/R				
				9	Mis				
SC12Q01	<i>Courses for gifted - Q12a</i>	(F1.0)	102-102	1	Yes	SC13Q01	<i>Computers altogether - Q13a</i>	(F4.0)	107-110
				2	No				
				7	N/A				
				8	M/R				
				9	Mis				
						9997	N/A		
						9999	Mis		
						SC13Q02	<i>Computers students - Q13b</i>	(F4.0)	111-114
						9997	N/A		
						9999	Mis		
						SC13Q03	<i>Computers teachers - Q13c</i>	(F4.0)	115-118
						9997	N/A		
						9999	Mis		
						SC13Q04	<i>Computers admin - Q13d</i>	(F4.0)	119-122
						9997	N/A		
						9999	Mis		
						SC13Q05	<i>Computers with Web - Q13e</i>	(F4.0)	123-126
						9997	N/A		
						9999	Mis		

SC13Q06	Computers with Lan - Q13f (F4.0) 127-130
9997	N/A
9999	Mis
SC14Q01	Ftime teach in total - Q14a1 (F3.0) 131-133
997	N/A
999	Mis
SC14Q02	Ptime teach in total - Q14a2 (F3.0) 134-136
997	N/A
999	Mis
SC14Q03	Ftime teach <ISCED5A> in <pedag> - Q14b1 (F3.0) 137-139
997	N/A
999	Mis
SC14Q04	Ptime teach <ISCED5A> in <pedag> - Q14b2 (F3.0) 140-142
997	N/A
999	Mis
SC14Q05	Ftime teach fully certified - Q14c1 (F3.0) 143-145
997	N/A
999	Mis
SC14Q06	Ptime teach fully certified - Q14c2 (F3.0) 146-148
997	N/A
999	Mis
SC14Q07	Ftime teach <test language> - Q14d1 (F3.0) 149-151
997	N/A
999	Mis
SC14Q08	Ptime teach <test language> - Q14d2 (F3.0) 152-154
997	N/A
999	Mis
SC14Q09	Ftime teach <ISCED5A> in <test lang> - Q14e1 (F3.0) 155-157
997	N/A
999	Mis
SC14Q10	Ptime teach <ISCED5A> in <test lang> - Q14e2 (F3.0) 158-160
997	N/A
999	Mis
SC14Q11	Ftime teach <maths> - Q14f1 (F3.0) 161-163
997	N/A
999	Mis
SC14Q12	Ptime teach <maths> - Q14f2 (F3.0) 164-166
997	N/A
999	Mis
SC14Q13	Ftime teach <ISCED5A> in <maths> - Q14g1 (F3.0) 167-169
997	N/A
999	Mis
SC14Q14	Ptime teach <ISCED5A> in <maths> - Q14g2 (F3.0) 170-172
997	N/A
999	Mis
SC14Q15	Ftime teach <science> - Q14h1 (F3.0) 173-175
997	N/A
999	Mis
SC14Q16	Ptime teach <science> - Q14h2 (F3.0) 176-178
997	N/A
999	Mis
SC14Q17	Ftime teach <ISCED5A> in <science> - Q14i1 (F3.0) 179-181
997	N/A
999	Mis
SC14Q18	Ptime teach - <ISCED5A> in <science> - Q14i2 (F3.0) 182-184
997	N/A
999	Mis
SC15Q01	Professional development - Q15 (F3.0) 185-187
997	N/A
999	Mis

SC16Q01	<i>Standardised test - Q16a</i>	(F1.0)	188-188	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC16Q02	<i>Teacher's test - Q16b</i>	(F1.0)	189-189	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC16Q03	<i>Teacher's ratings - Q16c</i>	(F1.0)	190-190	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC16Q04	<i>Students' portfolios - Q16d</i>	(F1.0)	191-191	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC16Q05	<i>Assignments - Q16e</i>	(F1.0)	192-192	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC17Q01	<i>Parents - Q17a</i>	(F1.0)	193-193	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC17Q02	<i>Principal - Q17b</i>	(F1.0)	194-194	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis
SC17Q03	<i>Government - Q17c</i>	(F1.0)	195-195	1	Never
				2	Yearly
				3	Twice a year
				4	3 times a year
				5	4 or more times a year
				7	N/A
				8	M/R
				9	Mis

SC18Q01	<i>Parents information - Q18a</i> (F1.0) 196-196	1 Yes	SC19Q01	<i>Low expectations</i>	
		2 No		- <i>Q19a</i> (F1.0) 202-202	
		7 N/A		1 Not at all	
		8 M/R		2 A little	
		9 Mis		3 Some	
				4 A lot	
				7 N/A	
				8 M/R	
				9 Mis	
SC18Q02	<i>Promotion decisions - Q18b</i> (F1.0) 197-197	1 Yes	SC19Q02	<i>Student absenteeism - Q19b</i> (F1.0) 203-203	
		2 No		1 Not at all	
		7 N/A		2 A little	
		8 M/R		3 Some	
		9 Mis		4 A lot	
				7 N/A	
				8 M/R	
				9 Mis	
SC18Q03	<i>Instructional grouping</i>		SC19Q03	<i>Stud-teach relations - Q19c</i> (F1.0) 204-204	
	- <i>Q18c</i> (F1.0) 198-198	1 Yes		1 Not at all	
		2 No		2 A little	
		7 N/A		3 Some	
		8 M/R		4 A lot	
		9 Mis		7 N/A	
				8 M/R	
				9 Mis	
SC18Q04	<i>National comparison</i>		SC19Q04	<i>Teacher turnover - Q19d</i> (F1.0) 205-205	
	- <i>Q18d</i> (F1.0) 199-199	1 Yes		1 Not at all	
		2 No		2 A little	
		7 N/A		3 Some	
		8 M/R		4 A lot	
		9 Mis		7 N/A	
				8 M/R	
				9 Mis	
SC18Q05	<i>Progress monitoring - Q18e</i> (F1.0) 200-200	1 Yes	SC19Q05	<i>Lack parent support - Q19e</i> (F1.0) 206-206	
		2 No		1 Not at all	
		7 N/A		2 A little	
		8 M/R		3 Some	
		9 Mis		4 A lot	
				7 N/A	
				8 M/R	
				9 Mis	
SC18Q06	<i>Teachers' effectiveness - Q18f</i> (F1.0) 201-201	1 Yes			
		2 No			
		7 N/A			
		8 M/R			
		9 Mis			

SC19Q06	<i>Disruptions of classes - Q19f</i>	(F1.0) 207-207	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q07	<i>Ignoring students - Q19g</i>	(F1.0) 208-208	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q08	<i>Teacher absenteeism - Q19h</i>	(F1.0) 209-209	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q09	<i>Skippping classes - Q19i</i>	(F1.0) 210-210	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q10	<i>Lack of respect - Q19j</i>	(F1.0) 211-211	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q11	<i>Resisting change - Q19k</i>	(F1.0) 212-212	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q12	<i>Lack of instr time - Q19l</i>	(F1.0) 213-213	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q13	<i>Use of alcohol - Q19m</i>	(F1.0) 214-214	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q14	<i>Teachers' strictness - Q19n</i>	(F1.0) 215-215	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis
SC19Q15	<i>Bullying - Q19o</i>	(F1.0) 216-216	1	Not at all
			2	A little
			3	Some
			4	A lot
			7	N/A
			8	M/R
			9	Mis

SC19Q16	<i>Lack of encouragm - Q19p</i> (F1.0) 217-217	1 Not at all
		2 A little
		3 Some
		4 A lot
		7 N/A
		8 M/R
		9 Mis
SC19Q17	<i>Poor home envrm - Q19q</i> (F1.0) 218-218	1 Not at all
		2 A little
		3 Some
		4 A lot
		7 N/A
		8 M/R
		9 Mis
SC20Q01	<i>High morale - Q20a</i> (F1.0) 219-219	1 Strongly Disagree
		2 Disagree
		3 Agree
		4 Strongly Agree
		7 N/A
		8 M/R
		9 Mis
SC20Q02	<i>Enthusiasm - Q20b</i> (F1.0) 220-220	1 Strongly Disagree
		2 Disagree
		3 Agree
		4 Strongly Agree
		7 N/A
		8 M/R
		9 Mis
SC20Q03	<i>Pride in school - Q20c</i> (F1.0) 221-221	1 Strongly Disagree
		2 Disagree
		3 Agree
		4 Strongly Agree
		7 N/A
		8 M/R
		9 Mis
SC20Q04	<i>Value acad achvm - Q20d</i> (F1.0) 222-222	1 Strongly Disagree
		2 Disagree
		3 Agree
		4 Strongly Agree
		7 N/A
		8 M/R
		9 Mis
SC21Q01	<i>Teachers - Q21a</i> (F1.0) 223-223	1 Not at all
		2 A little
		3 Some
		4 A lot
		7 N/A
		8 M/R
		9 Mis
SC21Q02	<i><Test language> teachers - Q21b</i> (F1.0) 224-224	1 Not at all
		2 A little
		3 Some
		4 A lot
		7 N/A
		8 M/R
		9 Mis
SC21Q03	<i><Mathematics> teacher - Q21c</i> (F1.0) 225-225	1 Not at all
		2 A little
		3 Some
		4 A lot
		7 N/A
		8 M/R
		9 Mis
SC21Q04	<i><Science> teachers - Q21d</i> (F1.0) 226-226	1 Not at all
		2 A little
		3 Some
		4 A lot
		7 N/A
		8 M/R
		9 Mis

SC21Q05	Support personnel - Q21e (F1.0) 227-227	
1	Not at all	
2	A little	
3	Some	
4	A lot	
7	N/A	
8	M/R	
9	Mis	
SC22Q01	Hiring teachers - Q22a (A5) 228-232	
99997	N/A	
99999	Mis	
SC22Q02	Firing teachers - Q22b (A5) 233-237	
99997	N/A	
99999	Mis	
SC22Q03	Teacher salaries - Q22c (A5) 238-242	
99997	N/A	
99999	Mis	
SC22Q04	Salary increase - Q22d (A5) 243-247	
99997	N/A	
99999	Mis	
SC22Q05	Budget formulation - Q22e (A5) 248-252	
99997	N/A	
99999	Mis	
SC22Q06	Budget allocation - Q22f (A5) 253-257	
99997	N/A	
99999	Mis	
SC22Q07	Disciplinary policies - Q22g (A5) 258-262	
99997	N/A	
99999	Mis	
SC22Q08	Assessment policies - Q22h (A5) 263-267	
99997	N/A	
99999	Mis	
SC22Q09	Student admittance - Q22i (A5) 268-272	
99997	N/A	
99999	Mis	
SC22Q10	Textbooks - Q22j (A5) 273-277	
99997	N/A	
99999	Mis	
SC22Q11	Course content - Q22k (A5) 278-282	
99997	N/A	
99999	Mis	
SC22Q12	Course offer - Q22l (A5) 283-287	
99997	N/A	
99999	Mis	
SCHLSIZE	Number of students in the school (F5.0) 289-293	
99997	N/A	
99999	Mis	
PCGIRLS	Percentage of girls in the school (F5.3) 294-298	
7	N/A	
9	Mis	
SCHLTYPE	Type of school (F1.0) 299-299	
1	Private, government independent	
2	Private, government dependent	
3	Government	
7	N/A	
9	Mis	
TOTHRs	Total number of schooling hours per (F4.0) 300-303	
9997	N/A	
9999	Mis	
RATCOMP	Total number of computer / school size (F6.3) 304-309	
997	N/A	
999	Mis	
PERCOMP1	% of computers available to 15-year-olds (F4.2) 310-313	
7	N/A	
7	N/A	
PERCOMP2	% of computers available only for teachers (F4.2) 314-317	
7	N/A	
9	Mis	
PERCOMP3	% of computers available for administrative staff (F4.2) 318-321	
7	N/A	
9	Mis	

PERCOMP4	% of computers connected to the Web	(F4.2)	322-325	TCMORALE	Teacher morale	(F5.2)	375-379
7	N/A			97	N/A		
9	Mis			SCHAUTON	School autonomy	(F5.2)	380-384
				97	N/A		
PERCOMP5	% of computers connected to a LAN	(F4.2)	326-329	TCHPARTI	Teacher participation to decision making	(F5.2)	385-389
7	N/A			97	N/A		
9	Mis			SCMATBUI	Material resources	(F5.2)	390-394
STRATIO	School size / number of teachers	(F5.2)	330-334	97	N/A		
97	N/A			WNRSCHBW	School weight	(F8.2)	395-402
99	Mis			CNT	Country alphanumeric code	(A3)	404-406
PROPQUAL	Prop of teachers with ISCED5A level in pedagogy	(F4.2)	335-338				
7	N/A						
9	Mis						
PROPCERT	Prop of teachers fully certified	(F4.2)	339-342				
7	N/A						
9	Mis						
PROPREAD	Prop of language teachers with ISCED5A level in pedagogy	(F4.2)	343-346				
7	N/A						
9	Mis						
PROPMATH	Prop of math teachers with ISCED5A level in mathematics	(F4.2)	347-350				
7	N/A						
9	Mis						
PROPSCIE	Prop of science teachers with ISCED5A level in science	(F4.2)	351-354				
7	N/A						
9	Mis						
SCMATEDU	Instructional resources	(F5.2)	355-359				
97	N/A						
TCSHORT	Shortage of teachers	(F5.2)	360-364				
97	N/A						
TEACBEHA	Teacher behaviors	(F5.2)	365-369				
97	N/A						
STUDBEHA	Student behaviors	(F5.2)	370-374				
97	N/A						

APPENDIX 7 STUDENT TEST DATA CODEBOOK

COUNTR	Country ID		(A4)	1-4
SCHOOLID	School ID (unique)		(A5)	5-9
STIDSTD	Student ID		(A5)	10-14
SUBNATIO	Subnational entities		(A2)	16-17
BOOKID	Booklet Number		(A2)	19-20
M033Q01	ViewRoom – Q1	MC	(A1)	22-22
	1 No credit	Booklet 0	Q11	
	2 No credit	Booklet 3	Q47	
	3 No credit	Booklet 5	Q58	
	4 Full Credit	Booklet 9	Q26	
	8 M/R			
	9 Missing			
	n N/A			
	r Not reached			
M034Q01T	Bricks – Q1	FR	(A1)	23-23
	0 No credit	Booklet 3	Q48	
	1 Full Credit	Booklet 5	Q59	
	9 Missing	Booklet 9	Q27	
	n N/A			
	r Not reached			
M037Q01T	Farms – Q1	FR	(A1)	24-24
	0 No credit	Booklet 1	Q52	
	1 Full Credit	Booklet 9	Q22	
	9 Missing			
	n N/A			
	r Not reached			
M037Q02T	Farms – Q2	FR	(A1)	25-25
	0 No credit	Booklet 1	Q53	
	1 Full Credit	Booklet 9	Q23	
	9 Missing			
	n N/A			
	r Not reached			
M124Q01	Walking – Q1	FR	(A1)	26-26
	0 No credit	Booklet 1	Q54	
	1 No credit	Booklet 9	Q24	
	2 Full Credit			
	9 Missing			
	n N/A			
	r Not reached			

M124Q03T	Walking – Q3		FR	(A1)	27-27
	0 No credit	Booklet 1		Q55	
	1 Partial Credit	Booklet 9		Q25	
	2 Partial Credit				
	3 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
M136Q01T	Apples – Q1		FR	(A1)	28-28
	0 No credit	Booklet 1		Q56	
	1 No credit	Booklet 5		Q50	
	2 Full Credit	Booklet 8		Q9	
	9 Missing				
	n N/A				
	r Not reached				
M136Q02T	Apples – Q2		FR	(A1)	29-29
	0 No credit	Booklet 1		Q57	
	1 Full Credit	Booklet 5		Q51	
	9 Missing	Booklet 8		Q10	
	n N/A				
	r Not reached				
M136Q03T	Apples – Q3		FR	(A1)	30-30
	0 No credit	Booklet 1		Q58	
	1 Partial Credit	Booklet 5		Q52	
	2 Full Credit	Booklet 8		Q11	
	9 Missing				
	n N/A				
	r Not reached				
M144Q01T	Cube Painting – Q1		FR	(A1)	31-31
	0 No credit	Booklet 0		Q13	
	1 Full Credit	Booklet 1		Q48	
	9 Missing	Booklet 9		Q18	
	n N/A				
	r Not reached				
M144Q02T	Cube Painting – Q2		FR	(A1)	32-32
	0 No credit	Booklet 1		Q49	
	1 Full Credit	Booklet 9		Q19	
	9 Missing				
	n N/A				
	r Not reached				

M144Q03	<i>Cube Painting – Q3</i>		MC	(A1)	33-33
	1	Full Credit	<i>Booklet 0</i>	Q14	
	2	No credit	<i>Booklet 1</i>	Q50	
	3	No credit	<i>Booklet 9</i>	Q20	
	4	No credit			
	8	M/R			
	9	Missing			
	n	N/A			
M144Q04T	r	Not reached			
	<i>Cube Painting – Q4</i>		FR	(A1)	34-34
	0	No credit	<i>Booklet 1</i>	Q51	
	1	Full Credit	<i>Booklet 9</i>	Q21	
	9	Missing			
	n	N/A			
M145Q01T	r	Not reached			
	<i>Cubes – Q1</i>		FR	(A1)	35-35
	0	No credit	<i>Booklet 0</i>	Q12	
	1	Full Credit	<i>Booklet 3</i>	Q54	
	9	Missing	<i>Booklet 5</i>	Q65	
	n	N/A	<i>Booklet 9</i>	Q33	
M148Q02T	r	Not reached			
	<i>Continent Area</i>		FR	(A1)	36-36
	0	No credit	<i>Booklet 1</i>	Q60	
	1	Partial Credit	<i>Booklet 5</i>	Q54	
	2	Full Credit	<i>Booklet 8</i>	Q13	
	9	Missing			
M150Q01T	n	N/A			
	r	Not reached			
	<i>Growing Up – Q1</i>		FR	(A1)	37-37
	0	No credit	<i>Booklet 0</i>	Q18	
	1	Full Credit	<i>Booklet 1</i>	Q61	
	9	Missing	<i>Booklet 5</i>	Q55	
M150Q02T	n	N/A	<i>Booklet 8</i>	Q14	
	r	Not reached			
	<i>Growing Up – Q2</i>		FR	(A1)	38-38
	0	No credit	<i>Booklet 0</i>	Q20	
	1	Partial Credit	<i>Booklet 1</i>	Q63	
	2	Full Credit	<i>Booklet 5</i>	Q57	
	9	Missing	<i>Booklet 8</i>	Q16	
	n	N/A			
	r	Not reached			

M150Q03T	<i>Growing Up – Q3</i>		FR	(A1)	39-39
	0 No credit	<i>Booklet 0</i>		<i>Q19</i>	
	1 Full Credit	<i>Booklet 1</i>		<i>Q62</i>	
	9 Missing	<i>Booklet 5</i>		<i>Q56</i>	
	n N/A	<i>Booklet 8</i>		<i>Q15</i>	
	r Not reached				
M155Q01	<i>Pop Pyramids – Q1</i>		FR	(A1)	40-40
	0 No credit	<i>Booklet 3</i>		<i>Q50</i>	
	1 Full Credit	<i>Booklet 5</i>		<i>Q61</i>	
	9 Missing	<i>Booklet 9</i>		<i>Q29</i>	
	n N/A				
	r Not reached				
M155Q02T	<i>Pop Pyramids – Q2</i>		FR	(A1)	41-41
	0 No credit	<i>Booklet 3</i>		<i>Q49</i>	
	1 Partial Credit	<i>Booklet 5</i>		<i>Q60</i>	
	2 Full Credit	<i>Booklet 9</i>		<i>Q28</i>	
	9 Missing				
	n N/A				
	r Not reached				
M155Q03T	<i>Pop Pyramids – Q3</i>		FR	(A1)	42-42
	0 No credit	<i>Booklet 3</i>		<i>Q51</i>	
	1 Partial Credit	<i>Booklet 5</i>		<i>Q62</i>	
	2 Full Credit	<i>Booklet 9</i>		<i>Q30</i>	
	9 Missing				
	n N/A				
	r Not reached				
M155Q04T	<i>Pop Pyramids – Q4</i>		CMC	(A1)	43-43
	0 No credit	<i>Booklet 3</i>		<i>Q52</i>	
	1 No credit	<i>Booklet 5</i>		<i>Q63</i>	
	2 No credit	<i>Booklet 9</i>		<i>Q31</i>	
	3 No credit				
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

M159Q01	<i>Racing Car – Q1</i>		MC	(A1)	44-44
	1	No credit	<i>Booklet 0</i>	<i>Q15</i>	
	2	Full Credit	<i>Booklet 3</i>	<i>Q55</i>	
	3	No credit	<i>Booklet 8</i>	<i>Q1</i>	
	4	No credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
M159Q02	<i>Racing Car – Q2</i>		MC	(A1)	45-45
	1	No credit	<i>Booklet 0</i>	<i>Q16</i>	
	2	No credit	<i>Booklet 3</i>	<i>Q56</i>	
	3	Full Credit	<i>Booklet 8</i>	<i>Q2</i>	
	4	No credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
M159Q03	<i>Racing Car – Q3</i>		MC	(A1)	46-46
	1	No credit	<i>Booklet 0</i>	<i>Q17</i>	
	2	Full Credit	<i>Booklet 3</i>	<i>Q57</i>	
	3	No credit	<i>Booklet 8</i>	<i>Q3</i>	
	4	No credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
M159Q05	<i>Racing Car – Q5</i>		MC	(A1)	47-47
	1	No credit	<i>Booklet 3</i>	<i>Q58</i>	
	2	Full Credit	<i>Booklet 8</i>	<i>Q4</i>	
	3	No credit			
	4	No credit			
	5	No credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			

M161Q01	<i>Triangles – Q1</i>		MC	(A1)	48-48
	1 No credit	<i>Booklet 3</i>		Q62	
	2 No credit	<i>Booklet 8</i>		Q8	
	3 No credit				
	4 Full Credit				
	5 No credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
M179Q01T	<i>Robberies – Q1</i>		FR	(A1)	49-49
	0 No credit	<i>Booklet 3</i>		Q61	
	1 Partial Credit	<i>Booklet 8</i>		Q7	
	2 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
M192Q01T	<i>Containers – Q1</i>		CMC	(A1)	50-50
	0 No credit	<i>Booklet 3</i>		Q53	
	1 No credit	<i>Booklet 5</i>		Q64	
	2 Full Credit	<i>Booklet 9</i>		Q32	
	3 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
M266Q01T	<i>Carpenter – Q01</i>		CMC	(A1)	51-51
	0 No credit	<i>Booklet 3</i>		Q59	
	1 No credit	<i>Booklet 8</i>		Q5	
	2 No credit				
	3 No Credit				
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
M273Q01T	<i>Pipelines – Q1</i>		CMC	(A1)	52-52
	0 No credit	<i>Booklet 3</i>		Q60	
	1 Full Credit	<i>Booklet 8</i>		Q6	
	9 Missing				
	n N/A				
	r Not reached				

R040Q02	<i>Lake Chad – Q2</i>		MC	(A1)	53-53
	1	Full Credit	<i>Booklet 8</i>	Q62	
	2	No Credit	<i>Booklet 9</i>	Q49	
	3	No Credit			
	4	No Credit			
	5	No Credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
R040Q03A	<i>Lake Chad – Q3A</i>		FR	(A1)	54-54
	0	No credit	<i>Booklet 8</i>	Q63	
	1	Full Credit	<i>Booklet 9</i>	Q50	
	9	Missing			
	n	N/A			
	r	Not reached			
R040Q03B	<i>Lake Chad – Q3B</i>		FR	(A1)	55-55
	0	No credit	<i>Booklet 8</i>	Q64	
	1	Full Credit	<i>Booklet 9</i>	Q51	
	9	Missing			
	n	N/A			
	r	Not reached			
R040Q04	<i>Lake Chad – Q4</i>		MC	(A1)	56-56
	1	Full Credit	<i>Booklet 8</i>	Q65	
	2	No Credit	<i>Booklet 9</i>	Q52	
	3	No Credit			
	4	No Credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
R040Q06	<i>Lake Chad – Q6</i>		MC	(A1)	57-57
	1	No Credit	<i>Booklet 8</i>	Q66	
	2	No Credit	<i>Booklet 9</i>	Q53	
	3	Full Credit			
	4	No Credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			

R055Q01	<i>DruggedSpiders</i>		MC	(A1)	58-58
	1 No Credit	<i>Booklet 2</i>		Q26	
	2 No Credit	<i>Booklet 4</i>		Q21	
	3 No Credit	<i>Booklet 5</i>		Q3	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
R055Q02	r Not reached				
	<i>DruggedSpiders</i>		FR	(A1)	59-59
	0 No credit	<i>Booklet 2</i>		Q27	
	1 Full Credit	<i>Booklet 4</i>		Q22	
	9 Missing	<i>Booklet 5</i>		Q4	
	n N/A				
R055Q03	r Not reached				
	<i>DruggedSpiders</i>		FR	(A1)	60-60
	0 No credit	<i>Booklet 2</i>		Q28	
	1 No credit	<i>Booklet 4</i>		Q23	
	2 Full Credit	<i>Booklet 5</i>		Q5	
	9 Missing				
R055Q05	n N/A				
	r Not reached				
	<i>DruggedSpiders</i>		FR	(A1)	61-61
	0 No credit	<i>Booklet 2</i>		Q29	
	1 Full Credit	<i>Booklet 4</i>		Q24	
	9 Missing	<i>Booklet 5</i>		Q6	
R061Q01	n N/A				
	r Not reached				
	<i>Macondo – Q1</i>		FR	(A1)	62-62
	0 No credit	<i>Booklet 3</i>		Q30	
	1 Full Credit	<i>Booklet 5</i>		Q16	
	2 Full Credit				
R061Q03	9 Missing				
	n N/A				
	r Not reached				
	<i>Macondo – Q3</i>		MC	(A1)	63-63
	1 No Credit	<i>Booklet 3</i>		Q31	
	2 No Credit	<i>Booklet 5</i>		Q17	
	3 Full Credit	<i>Booklet 6</i>		Q2	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R061Q04	<i>Macondo – Q4</i>		MC	(A1)	64-64
	1 No Credit	<i>Booklet 3</i>		Q32	
	2 No Credit	<i>Booklet 5</i>		Q18	
	3 Full Credit	<i>Booklet 6</i>		Q3	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R061Q05	<i>Macondo – Q5</i>		FR	(A1)	65-65
	0 No credit	<i>Booklet 3</i>		Q33	
	1 Full Credit	<i>Booklet 5</i>		Q19	
	9 Missing	<i>Booklet 6</i>		Q4	
	n N/A				
	r Not reached				
R067Q01	<i>Aesop – Q1</i>		MC	(A1)	66-66
	1 No Credit	<i>Booklet 2</i>		Q33	
	2 No Credit	<i>Booklet 4</i>		Q28	
	3 Full Credit	<i>Booklet 5</i>		Q10	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R067Q04	<i>Aesop – Q4</i>		FR	(A1)	67-67
	0 No credit	<i>Booklet 2</i>		Q34	
	1 Partial Credit	<i>Booklet 4</i>		Q29	
	2 Full Credit	<i>Booklet 5</i>		Q11	
	9 Missing				
	n N/A				
	r Not reached				
R067Q05	<i>Aesop – Q5</i>		FR	(A1)	68-68
	0 No credit	<i>Booklet 2</i>		Q35	
	1 Partial Credit	<i>Booklet 4</i>		Q30	
	2 Full Credit	<i>Booklet 5</i>		Q12	
	9 Missing				
	n N/A				
	r Not reached				

R070Q02	Beach – Q2		MC	(A1)	69-69
	1 Full Credit	Booklet 1		Q17	
	2 No Credit	Booklet 5		Q49	
	3 No Credit	Booklet 7		Q33	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R070Q03	Beach – Q3		MC	(A1)	70-70
	1 No Credit	Booklet 1		Q15	
	2 No Credit	Booklet 5		Q47	
	3 Full Credit	Booklet 7		Q31	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R070Q04	Beach – Q4		FR	(A1)	71-71
	0 No credit	Booklet 1		Q16	
	1 Full Credit	Booklet 5		Q48	
	9 Missing	Booklet 7		Q32	
	n N/A				
	r Not reached				
R070Q07T	Beach – Q7		CMC	(A1)	72-72
	0 No credit	Booklet 1		Q14	
	1 No credit	Booklet 5		Q46	
	2 No credit	Booklet 7		Q30	
	3 No credit				
	4 Partial Credit				
	5 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R076Q03	Iran Air – Q3		FR	(A1)	73-73
	0 No credit	Booklet 2		Q36	
	1 Full Credit	Booklet 4		Q31	
	9 Missing	Booklet 5		Q13	
	n N/A				
	r Not reached				

R076Q04	<i>Iran Air – Q4</i>		FR	(A1)	74-74
	0 No credit	<i>Booklet 2</i>		Q37	
	1 Full Credit	<i>Booklet 4</i>		Q32	
	9 Missing	<i>Booklet 5</i>		Q14	
	n N/A				
	r Not reached				
R076Q05	<i>Iran Air – Q5</i>		MC	(A1)	75-75
	1 Full Credit	<i>Booklet 2</i>		Q38	
	2 No Credit	<i>Booklet 4</i>		Q33	
	3 No Credit	<i>Booklet 5</i>		Q15	
	4 No Credit				
	5 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R077Q02	<i>Flu – Q2</i>		MC	(A1)	76-76
	1 No Credit	<i>Booklet 8</i>		Q47	
	2 Full Credit	<i>Booklet 9</i>		Q34	
	3 No Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R077Q03	<i>Flu – Q3</i>		FR	(A1)	77-77
	0 No credit	<i>Booklet 8</i>		Q48	
	1 Partial Credit	<i>Booklet 9</i>		Q35	
	2 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
R077Q04	<i>Flu – Q4</i>		MC	(A1)	78-78
	1 No Credit	<i>Booklet 8</i>		Q49	
	2 Full Credit	<i>Booklet 9</i>		Q36	
	3 No Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R077Q05	<i>Flu – Q5</i>		FR	(A1)	79-79
	0 No credit	<i>Booklet 8</i>		<i>Q50</i>	
	1 No credit	<i>Booklet 9</i>		<i>Q37</i>	
	2 Full Credit				
	9 Missing				
	n N/A				
R077Q06	r Not reached				
	<i>Flu – Q6</i>		MC	(A1)	80-80
	1 No Credit	<i>Booklet 8</i>		<i>Q51</i>	
	2 No Credit	<i>Booklet 9</i>		<i>Q38</i>	
	3 No Credit				
	4 Full Credit				
R081Q01	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
	<i>Graffiti – Q1</i>		MC	(A1)	81-81
	1 No Credit	<i>Booklet 1</i>		<i>Q3</i>	
R081Q05	2 Full Credit	<i>Booklet 5</i>		<i>Q35</i>	
	3 No Credit	<i>Booklet 7</i>		<i>Q19</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
R081Q06A	r Not reached				
	<i>Graffiti – Q5</i>		FR	(A1)	82-82
	0 No credit	<i>Booklet 1</i>		<i>Q5</i>	
	1 Full Credit	<i>Booklet 5</i>		<i>Q37</i>	
	9 Missing	<i>Booklet 7</i>		<i>Q21</i>	
	n N/A				
R081Q06B	r Not reached				
	<i>Graffiti – Q6A</i>		FR	(A1)	83-83
	0 No credit	<i>Booklet 1</i>		<i>Q6</i>	
	1 Full Credit	<i>Booklet 5</i>		<i>Q38</i>	
	9 Missing	<i>Booklet 7</i>		<i>Q22</i>	
	n N/A				
R081Q06B	r Not reached				
	<i>Graffiti – Q6B</i>		FR	(A1)	84-84
	0 No credit	<i>Booklet 1</i>		<i>Q7</i>	
	1 Full Credit	<i>Booklet 5</i>		<i>Q39</i>	
	9 Missing	<i>Booklet 7</i>		<i>Q23</i>	
	n N/A				
R081Q06B	r Not reached				

R083Q01	Household – Q1		MC	(A1)	85-85
	1 No Credit	Booklet 3		Q34	
	2 No Credit	Booklet 5		Q20	
	3 No Credit	Booklet 6		Q5	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R083Q02	Household – Q2		FR	(A1)	86-86
	0 No credit	Booklet 3		Q35	
	1 Full Credit	Booklet 5		Q21	
	9 Missing	Booklet 6		Q6	
	n N/A				
	r Not reached				
R083Q03	Household – Q3		FR	(A1)	87-87
	0 No credit	Booklet 3		Q36	
	1 Full Credit	Booklet 5		Q22	
	9 Missing	Booklet 6		Q7	
	n N/A				
	r Not reached				
R083Q04	Household – Q4		MC	(A1)	88-88
	1 Full Credit	Booklet 3		Q37	
	2 No Credit	Booklet 5		Q23	
	3 No Credit	Booklet 6		Q8	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R083Q06	Household – Q6		FR	(A1)	89-89
	0 No credit	Booklet 3		Q38	
	1 Full Credit	Booklet 5		Q24	
	9 Missing	Booklet 6		Q9	
	n N/A				
	r Not reached				
R086Q04	If – Q4		FR	(A1)	90-90
	0 No credit	Booklet 1		Q37	
	1 Full Credit	Booklet 3		Q19	
	9 Missing	Booklet 4		Q8	
	n N/A				
	r Not reached				

R086Q05	<i>If – Q5</i>		MC	(A1)	91-91
	1 No Credit	<i>Booklet 1</i>		<i>Q35</i>	
	2 No Credit	<i>Booklet 3</i>		<i>Q17</i>	
	3 Full Credit	<i>Booklet 4</i>		<i>Q6</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R086Q07	<i>If – Q7</i>		FR	(A1)	92-92
	0 No credit	<i>Booklet 1</i>		<i>Q36</i>	
	1 Full Credit	<i>Booklet 3</i>		<i>Q18</i>	
	9 Missing	<i>Booklet 4</i>		<i>Q7</i>	
	n N/A				
	r Not reached				
R088Q01	<i>Labour – Q1</i>		MC	(A1)	93-93
	1 No Credit	<i>Booklet 8</i>		<i>Q57</i>	
	2 No Credit	<i>Booklet 9</i>		<i>Q44</i>	
	3 No Credit				
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R088Q03	<i>Labour – Q3</i>		FR	(A1)	94-94
	0 No credit	<i>Booklet 8</i>		<i>Q58</i>	
	1 Partial Credit	<i>Booklet 8</i>		<i>Q58</i>	
	2 Full Credit	<i>Booklet 9</i>		<i>Q45</i>	
	9 Missing	<i>Booklet 9</i>		<i>Q45</i>	
	n N/A				
	r Not reached				
R088Q04T	<i>Labour – Q4</i>		CMC	(A1)	95-95
	0 No credit	<i>Booklet 8</i>		<i>Q59</i>	
	1 No credit	<i>Booklet 9</i>		<i>Q46</i>	
	2 No credit				
	3 Partial Credit				
	4 Partial Credit				
	5 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R088Q05T	<i>Labour – Q5</i>		CMC	(A1)	96-96
	0 No credit	<i>Booklet 8</i>		Q60	
	1 No credit	<i>Booklet 9</i>		Q47	
	2 No credit				
	3 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R088Q07	<i>Labour – Q7</i>		MC	(A1)	97-97
	1 No Credit	<i>Booklet 8</i>		Q61	
	2 No Credit	<i>Booklet 9</i>		Q48	
	3 Full Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R091Q05	<i>Library – Q5</i>		FR	(A1)	98-98
	0 No credit	<i>Booklet 2</i>		Q13	
	1 Full Credit	<i>Booklet 3</i>		Q1	
	9 Missing	<i>Booklet 7</i>		Q34	
	n N/A				
	r Not reached				
R091Q06	<i>Library – Q6</i>		MC	(A1)	99-99
	1 No Credit	<i>Booklet 2</i>		Q14	
	2 Full Credit	<i>Booklet 3</i>		Q2	
	3 No Credit	<i>Booklet 7</i>		Q35	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R091Q07B	<i>Library – Q7B</i>		FR	(A1)	100-100
	0 No credit	<i>Booklet 2</i>		Q16	
	1 No credit	<i>Booklet 3</i>		Q4	
	2 Full Credit	<i>Booklet 7</i>		Q37	
	9 Missing				
	n N/A				
	r Not reached				

R093Q03	<i>News Agencies - Q3</i>		FR	(A1)	101-101
	0 No credit	<i>Booklet 2</i>		Q24	
	1 Full Credit	<i>Booklet 4</i>		Q19	
	9 Missing	<i>Booklet 5</i>		Q1	
	n N/A				
R099Q04B	r Not reached				
	<i>Planint – Q4B</i>		FR	(A1)	102-102
	0 No credit	<i>Booklet 4</i>		Q39	
	1 No credit	<i>Booklet 6</i>		Q23	
	2 Partial Credit	<i>Booklet 7</i>		Q6	
R100Q04	3 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
	<i>Police – Q4</i>		MC	(A1)	103-103
R100Q05	1 No Credit	<i>Booklet 3</i>		Q39	
	2 Full Credit	<i>Booklet 5</i>		Q25	
	3 No Credit	<i>Booklet 6</i>		Q10	
	4 No Credit				
	8 M/R				
R100Q06	9 Missing				
	n N/A				
	r Not reached				
	<i>Police – Q5</i>		MC	(A1)	104-104
R100Q07	1 No Credit	<i>Booklet 3</i>		Q40	
	2 No Credit	<i>Booklet 5</i>		Q26	
	3 Full Credit	<i>Booklet 6</i>		Q11	
	4 No Credit				
	8 M/R				
R100Q08	9 Missing				
	n N/A				
	r Not reached				
	<i>Police – Q6</i>		MC	(A1)	105-105
R100Q09	1 No Credit	<i>Booklet 3</i>		Q41	
	2 No Credit	<i>Booklet 5</i>		Q27	
	3 Full Credit	<i>Booklet 6</i>		Q12	
	4 No Credit				
	8 M/R				
R100Q10	9 Missing				
	n N/A				
	r Not reached				
	<i>Police – Q7</i>				
	0 No credit				

R100Q07	Police – Q7		MC	(A1)	106-106
	1 No Credit	Booklet 3		Q42	
	2 Full Credit	Booklet 5		Q28	
	3 No Credit	Booklet 6		Q13	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R101Q01	Rhinoceros – Q1		MC	(A1)	107-107
	1 No Credit	Booklet 1		Q8	
	2 No Credit	Booklet 5		Q40	
	3 Full Credit	Booklet 7		Q24	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R101Q02	Rhinoceros – Q2		MC	(A1)	108-108
	1 No Credit	Booklet 1		Q9	
	2 Full Credit	Booklet 5		Q41	
	3 No Credit	Booklet 7		Q25	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R101Q03	Rhinoceros – Q3		MC	(A1)	109-109
	1 No Credit	Booklet 1		Q10	
	2 Full Credit	Booklet 5		Q42	
	3 No Credit	Booklet 7		Q26	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R101Q04	Rhinoceros – Q4		MC	(A1)	110-110
	1 No Credit	Booklet 1		Q11	
	2 No Credit	Booklet 5		Q43	
	3 Full Credit	Booklet 7		Q27	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R101Q05	<i>Rhinoceros – Q5</i>		MC	(A1)	111-111
	1 No Credit	<i>Booklet 1</i>		Q12	
	2 No Credit	<i>Booklet 5</i>		Q44	
	3 No Credit	<i>Booklet 7</i>		Q28	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
R101Q08	<i>Rhinoceros – Q8</i>		MC	(A1)	112-112
	1 No Credit	<i>Booklet 1</i>		Q13	
	2 No Credit	<i>Booklet 5</i>		Q45	
	3 Full Credit	<i>Booklet 7</i>		Q29	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
R102Q01	<i>Shirt – Q1</i>		MC	(A1)	113-113
	1 No Credit	<i>Booklet 1</i>		Q38	
	2 Full Credit	<i>Booklet 3</i>		Q20	
	3 No Credit	<i>Booklet 4</i>		Q9	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
R102Q04A	<i>Shirt – Q4A</i>		FR	(A1)	114-114
	0 No credit	<i>Booklet 1</i>		Q39	
	1 Full Credit	<i>Booklet 3</i>		Q21	
	9 Missing	<i>Booklet 4</i>		Q10	
	n N/A				
	r Not reached				
R102Q05	<i>Shirt – Q5</i>		FR	(A1)	115-115
	0 No credit	<i>Booklet 1</i>		Q40	
	1 Full Credit	<i>Booklet 3</i>		Q22	
	9 Missing	<i>Booklet 4</i>		Q11	
	n N/A				
	r Not reached				

R102Q06	<i>Shirt – Q6</i>		FR	(A1)	116-116
	0	No credit	<i>Booklet 1</i>	<i>Q41</i>	
	1	Full Credit	<i>Booklet 3</i>	<i>Q23</i>	
	9	Missing	<i>Booklet 4</i>	<i>Q12</i>	
	n	N/A			
R102Q07	<i>Shirt – Q7</i>		MC	(A1)	117-117
	1	No Credit	<i>Booklet 1</i>	<i>Q42</i>	
	2	No Credit	<i>Booklet 3</i>	<i>Q24</i>	
	3	Full Credit	<i>Booklet 4</i>	<i>Q13</i>	
	4	No Credit			
R104Q01	<i>Telephone – Q1</i>		FR	(A1)	118-118
	0	No credit	<i>Booklet 3</i>	<i>Q43</i>	
	1	Full Credit	<i>Booklet 5</i>	<i>Q29</i>	
	9	Missing	<i>Booklet 6</i>	<i>Q14</i>	
	n	N/A			
R104Q02	<i>Telephone – Q2</i>		FR	(A1)	119-119
	0	No credit	<i>Booklet 3</i>	<i>Q44</i>	
	1	Full Credit	<i>Booklet 5</i>	<i>Q30</i>	
	9	Missing	<i>Booklet 6</i>	<i>Q15</i>	
	n	N/A			
R104Q05	<i>Telephone – Q5</i>		FR	(A1)	120-120
	0	No credit	<i>Booklet 3</i>	<i>Q46</i>	
	1	Partial Credit	<i>Booklet 5</i>	<i>Q32</i>	
	2	Full Credit	<i>Booklet 6</i>	<i>Q17</i>	
	9	Missing			
R104Q06	<i>Telephone – Q6</i>		FR	(A1)	121-121
	0	No credit	<i>Booklet 3</i>	<i>Q45</i>	
	1	Full Credit	<i>Booklet 5</i>	<i>Q31</i>	
	9	Missing	<i>Booklet 6</i>	<i>Q16</i>	
	n	N/A			
	<i>Not reached</i>				

R110Q01	<i>Runners – Q1</i>		MC	(A1)	122-122
	1 No Credit	<i>Booklet 0</i>		<i>Q7</i>	
	2 No Credit	<i>Booklet 7</i>		<i>Q45</i>	
	3 No Credit	<i>Booklet 8</i>		<i>Q35</i>	
	4 Full Credit	<i>Booklet 9</i>		<i>Q54</i>	
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R110Q04	<i>Runners – Q4</i>		FR	(A1)	123-123
	0 No credit	<i>Booklet 0</i>		<i>Q8</i>	
	1 Full Credit	<i>Booklet 7</i>		<i>Q46</i>	
	9 Missing	<i>Booklet 8</i>		<i>Q36</i>	
	n N/A	<i>Booklet 9</i>		<i>Q55</i>	
	r Not reached				
R110Q05	<i>Runners – Q5</i>		FR	(A1)	124-124
	0 No credit	<i>Booklet 0</i>		<i>Q9</i>	
	1 Full Credit	<i>Booklet 7</i>		<i>Q47</i>	
	9 Missing	<i>Booklet 8</i>		<i>Q37</i>	
	n N/A	<i>Booklet 9</i>		<i>Q56</i>	
	r Not reached				
R110Q06	<i>Runners – Q6</i>		MC	(A1)	125-125
	1 No Credit	<i>Booklet 0</i>		<i>Q10</i>	
	2 No Credit	<i>Booklet 7</i>		<i>Q48</i>	
	3 No Credit	<i>Booklet 8</i>		<i>Q38</i>	
	4 Full Credit	<i>Booklet 9</i>		<i>Q57</i>	
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R111Q01	<i>Exchange – Q1</i>		MC	(A1)	126-126
	1 No Credit	<i>Booklet 1</i>		<i>Q43</i>	
	2 No Credit	<i>Booklet 3</i>		<i>Q25</i>	
	3 No Credit	<i>Booklet 4</i>		<i>Q14</i>	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R111Q02B	<i>Exchange – Q2B</i>		FR	(A1)	127-127
	0 No credit	<i>Booklet 1</i>		<i>Q44</i>	
	1 Partial Credit	<i>Booklet 3</i>		<i>Q26</i>	
	2 Full Credit	<i>Booklet 4</i>		<i>Q15</i>	
	9 Missing				
	n N/A				
	r Not reached				
R111Q04	<i>Exchange – Q4</i>		MC	(A1)	128-128
	1 No Credit	<i>Booklet 1</i>		<i>Q45</i>	
	2 No Credit	<i>Booklet 3</i>		<i>Q27</i>	
	3 Full Credit	<i>Booklet 4</i>		<i>Q16</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R111Q06B	<i>Exchange – Q6B</i>		FR	(A1)	129-129
	0 No credit	<i>Booklet 1</i>		<i>Q47</i>	
	1 Partial Credit	<i>Booklet 3</i>		<i>Q29</i>	
	2 Full Credit	<i>Booklet 4</i>		<i>Q18</i>	
	9 Missing				
	n N/A				
	r Not reached				
R119Q01	<i>Gift – Q1</i>		MC	(A1)	130-130
	1 No Credit	<i>Booklet 2</i>		<i>Q18</i>	
	2 No Credit	<i>Booklet 3</i>		<i>Q6</i>	
	3 Full Credit	<i>Booklet 7</i>		<i>Q39</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R119Q04	<i>Gift – Q4</i>		MC	(A1)	131-131
	1 No Credit	<i>Booklet 2</i>		<i>Q22</i>	
	2 No Credit	<i>Booklet 3</i>		<i>Q10</i>	
	3 Full Credit	<i>Booklet 7</i>		<i>Q43</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R119Q05	<i>Gift – Q5</i>		FR	(A1)	132-132
	0 No credit	<i>Booklet 2</i>		<i>Q23</i>	
	1 Partial Credit	<i>Booklet 3</i>		<i>Q11</i>	
	2 Full Credit	<i>Booklet 7</i>		<i>Q44</i>	
	3 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
R119Q06	<i>Gift – Q6</i>		MC	(A1)	133-133
	1 No Credit	<i>Booklet 2</i>		<i>Q20</i>	
	2 Full Credit	<i>Booklet 3</i>		<i>Q8</i>	
	3 No Credit	<i>Booklet 7</i>		<i>Q41</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R119Q07	<i>Gift – Q7</i>		FR	(A1)	134-134
	0 No credit	<i>Booklet 2</i>		<i>19</i>	
	1 Partial Credit	<i>Booklet 3</i>		<i>Q7</i>	
	2 Partial Credit	<i>Booklet 7</i>		<i>Q40</i>	
	3 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
R119Q08	<i>Gift – Q8</i>		FR	(A1)	135-135
	0 No credit	<i>Booklet 2</i>		<i>Q21</i>	
	1 Full Credit	<i>Booklet 3</i>		<i>Q9</i>	
	2 Full Credit	<i>Booklet 7</i>		<i>Q42</i>	
	9 Missing				
	n N/A				
	r Not reached				
R119Q09T	<i>Gift – Q9</i>		FR	(A1)	136-136
	0 No credit	<i>Booklet 2</i>		<i>Q17</i>	
	1 Partial Credit	<i>Booklet 3</i>		<i>Q5</i>	
	2 Full Credit	<i>Booklet 7</i>		<i>Q38</i>	
	9 Missing				
	n N/A				
	r Not reached				

R120Q01	<i>Opinions – Q1</i>		MC	(A1)	137-137
	1 No Credit	<i>Booklet 4</i>		<i>Q41</i>	
	2 Full Credit	<i>Booklet 6</i>		<i>Q25</i>	
	3 No Credit	<i>Booklet 7</i>		<i>Q8</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R120Q03	<i>Opinions – Q3</i>		MC	(A1)	138-138
	1 Full Credit	<i>Booklet 4</i>		<i>Q42</i>	
	2 No Credit	<i>Booklet 6</i>		<i>Q26</i>	
	3 No Credit	<i>Booklet 7</i>		<i>Q9</i>	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R120Q06	<i>Opinions – Q6</i>		FR	(A1)	139-139
	0 No credit	<i>Booklet 4</i>		<i>Q43</i>	
	1 Full Credit	<i>Booklet 6</i>		<i>Q27</i>	
	9 Missing	<i>Booklet 7</i>		<i>Q10</i>	
	n N/A				
	r Not reached				
R120Q07T	<i>Opinions – Q7</i>		CMC	(A1)	140-140
	0 No credit	<i>Booklet 4</i>		<i>Q44</i>	
	1 No credit	<i>Booklet 6</i>		<i>Q28</i>	
	2 No credit	<i>Booklet 7</i>		<i>Q11</i>	
	3 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R122Q02	<i>Just Art – Q2</i>		MC	(A1)	141-141
	1 No Credit	<i>Booklet 2</i>		<i>Q31</i>	
	2 No Credit	<i>Booklet 4</i>		<i>Q26</i>	
	3 No Credit	<i>Booklet 5</i>		<i>Q8</i>	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R122Q03T	<i>Just Art – Q3</i>		CMC	(A1)	142-142
	0 No credit	<i>Booklet 2</i>		<i>Q32</i>	
	1 No credit	<i>Booklet 4</i>		<i>Q27</i>	
	2 No credit	<i>Booklet 5</i>		<i>Q9</i>	
	3 No credit				
	4 No credit				
	5 Partial Credit				
	6 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R216Q01	<i>Amanda – Q1</i>		MC	(A1)	143-143
	1 No Credit	<i>Booklet 8</i>		<i>Q52</i>	
	2 No Credit	<i>Booklet 9</i>		<i>Q39</i>	
	3 Full Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R216Q02	<i>Amanda – Q2</i>		FR	(A1)	144-144
	0 No Credit	<i>Booklet 8</i>		<i>Q53</i>	
	1 Full credit	<i>Booklet 9</i>		<i>Q40</i>	
	9 Missing				
	n N/A				
	r Not reached				
R216Q03T	<i>Amanda – Q3</i>		FR	(A1)	145-145
	0 No credit	<i>Booklet 8</i>		<i>Q54</i>	
	1 Full Credit	<i>Booklet 9</i>		<i>Q41</i>	
	9 Missing				
	n N/A				
	r Not reached				
R216Q04	<i>Amanda – Q4</i>		FR	(A1)	146-146
	0 No credit	<i>Booklet 8</i>		<i>Q55</i>	
	1 Full Credit	<i>Booklet 9</i>		<i>Q42</i>	
	9 Missing				
	n N/A				
	r Not reached				

R216Q06	<i>Amanda – Q6</i>		MC	(A1)	147-147
	1 No Credit	<i>Booklet 8</i>		Q56	
	2 No Credit	<i>Booklet 9</i>		Q43	
	3 No Credit				
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R219Q01T	<i>Employment – Q1</i>		FR	(A1)	149-149
	0 No credit	<i>Booklet 0</i>		Q1	
	1 Full Credit	<i>Booklet 1</i>		Q1	
	9 Missing	<i>Booklet 5</i>		Q33	
	n N/A	<i>Booklet 7</i>		Q17	
	r Not reached				
R219Q01E	<i>Employment – Q1</i>		FR	(A1)	148-148
	0 No credit	<i>Booklet 0</i>		Q1E	
	1 Full Credit	<i>Booklet 1</i>		Q1E	
	9 Missing	<i>Booklet 5</i>		Q33E	
	n N/A	<i>Booklet 7</i>		Q17E	
	r Not reached				
R219Q02	<i>Employment – Q2</i>		FR	(A1)	150-150
	0 No credit	<i>Booklet 0</i>		Q2	
	1 Full Credit	<i>Booklet 1</i>		Q2	
	9 Missing	<i>Booklet 5</i>		Q34	
	n N/A	<i>Booklet 7</i>		Q18	
	r Not reached				
R220Q01	<i>South Pole – Q1</i>		FR	(A1)	151-151
	0 No credit	<i>Booklet 4</i>		Q45	
	1 Full Credit	<i>Booklet 6</i>		Q29	
	9 Missing	<i>Booklet 7</i>		Q12	
	n N/A				
	r Not reached				
R220Q02B	<i>South Pole – Q2</i>		MC	(A1)	152-152
	1 Full Credit	<i>Booklet 4</i>		Q46	
	2 No Credit	<i>Booklet 6</i>		Q30	
	3 No Credit	<i>Booklet 7</i>		Q13	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R220Q04	South Pole – Q4		MC	(A1)	153-153
	1 No Credit	Booklet 4		Q47	
	2 No Credit	Booklet 6		Q31	
	3 No Credit	Booklet 7		Q14	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R220Q05	South Pole – Q5		MC	(A1)	154-154
	1 No Credit	Booklet 4		Q48	
	2 No Credit	Booklet 6		Q32	
	3 Full Credit	Booklet 7		Q15	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R220Q06	South Pole – Q6		MC	(A1)	155-155
	1 No Credit	Booklet 4		Q49	
	2 No Credit	Booklet 6		Q33	
	3 Full Credit	Booklet 7		Q16	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R225Q02	Nuclear – Q2		FR	(A1)	156-156
	0 No credit	Booklet 0		Q4	
	1 Full Credit	Booklet 1		Q21	
	9 Missing	Booklet 2		Q4	
	n N/A	Booklet 6		Q37	
	r Not reached				
R225Q03	Nuclear – Q3		MC	(A1)	157-157
	1 No Credit	Booklet 0		Q5	
	2 Full Credit	Booklet 1		Q22	
	3 No Credit	Booklet 2		Q5	
	4 No Credit	Booklet 6		Q38	
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

R225Q04	<i>Nuclear – Q4</i>		MC	(A1)	158-158
	1	No Credit	<i>Booklet 0</i>	Q6	
	2	Full Credit	<i>Booklet 1</i>	Q23	
	3	No Credit	<i>Booklet 2</i>	Q6	
	4	No Credit	<i>Booklet 6</i>	Q39	
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
R227Q01	<i>Optician – Q1</i>		MC	(A1)	159-159
	1	No Credit	<i>Booklet 1</i>	Q30	
	2	Full Credit	<i>Booklet 3</i>	Q12	
	3	No Credit	<i>Booklet 4</i>	Q1	
	4	No Credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
R227Q02T	<i>Optician – Q2</i>		CMC	(A1)	160-160
	0	No credit	<i>Booklet 1</i>	Q31	
	1	No credit	<i>Booklet 3</i>	Q13	
	2	No credit	<i>Booklet 4</i>	Q2	
	3	No credit			
	4	No credit			
	5	Partial Credit			
	6	Partial Credit			
	7	Full Credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
R227Q03	<i>Optician – Q3</i>		FR	(A1)	161-161
	0	No credit	<i>Booklet 1</i>	Q32	
	1	Full Credit	<i>Booklet 3</i>	Q14	
	9	Missing	<i>Booklet 4</i>	Q3	
	n	N/A			
	r	Not reached			
R227Q04	<i>Optician – Q4</i>		FR	(A1)	162-162
	0	No credit	<i>Booklet 1</i>	Q33	
	1	Partial Credit	<i>Booklet 3</i>	Q15	
	2	Full Credit	<i>Booklet 4</i>	Q4	
	9	Missing			
	n	N/A			
	r	Not reached			

R227Q06	Optician – Q6		FR	(A1)	163-163
	0 No credit	Booklet 1		Q34	
	1 Full Credit	Booklet 3		Q16	
	9 Missing	Booklet 4		Q5	
	n N/A				
	r Not reached				
R228Q01	Guide – Q1		MC	(A1)	164-164
	1 No Credit	Booklet 4		Q34	
	2 No Credit	Booklet 6		Q18	
	3 No Credit	Booklet 7		Q1	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R228Q02	Guide – Q2		MC	(A1)	165-165
	1 No Credit	Booklet 4		Q35	
	2 Full Credit	Booklet 6		Q19	
	3 No Credit	Booklet 7		Q2	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R228Q04	Guide – Q4		MC	(A1)	166-166
	1 No Credit	Booklet 4		Q36	
	2 No Credit	Booklet 6		Q20	
	3 No Credit	Booklet 7		Q3	
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
R234Q01	Personnel – Q1		FR	(A1)	167-167
	0 No credit	Booklet 1		Q26	
	1 Full Credit	Booklet 2		Q9	
	9 Missing	Booklet 6		Q42	
	n N/A				
	r Not reached				

R234Q02	<i>Personnel – Q2</i>		FR	(A1)	168-168
	0 No credit	<i>Booklet 1</i>		Q27	
	1 Full Credit	<i>Booklet 2</i>		Q10	
	9 Missing	<i>Booklet 6</i>		Q43	
	n N/A				
	r Not reached				
R236Q01	<i>NewRules – Q1</i>		FR	(A1)	169-169
	0 No credit	<i>Booklet 7</i>		Q51	
	1 Full Credit	<i>Booklet 8</i>		Q41	
	9 Missing	<i>Booklet 9</i>		Q60	
	n N/A				
	r Not reached				
R236Q02	<i>NewRules – Q2</i>		FR	(A1)	170-170
	0 No credit	<i>Booklet 7</i>		Q52	
	1 Full Credit	<i>Booklet 8</i>		Q42	
	2 Full Credit	<i>Booklet 9</i>		Q61	
	9 Missing				
	n N/A				
	r Not reached				
R237Q01	<i>Job Interview –</i>		FR	(A1)	171-171
	0 No credit	<i>Booklet 7</i>		Q49	
	1 Full Credit	<i>Booklet 8</i>		Q39	
	9 Missing	<i>Booklet 9</i>		Q58	
	n N/A				
	r Not reached				
R237Q03	<i>Job Interview –</i>		FR	(A1)	172-172
	0 No credit	<i>Booklet 7</i>		Q50	
	1 Full Credit	<i>Booklet 8</i>		Q40	
	9 Missing	<i>Booklet 9</i>		Q59	
	n N/A				
	r Not reached				
R238Q01	<i>Bicycle – Q1</i>		FR	(A1)	173-173
	0 No credit	<i>Booklet 1</i>		Q24	
	1 Full Credit	<i>Booklet 2</i>		Q7	
	9 Missing	<i>Booklet 6</i>		Q40	
	n N/A				
	r Not reached				
R238Q02	<i>Bicycle – Q2</i>		FR	(A1)	174-174
	0 No credit	<i>Booklet 1</i>		Q25	
	1 Full Credit	<i>Booklet 2</i>		Q8	
	9 Missing	<i>Booklet 6</i>		Q41	
	n N/A				
	r Not reached				

R239Q01	<i>Allergies – Q1</i>		FR	(A1)	175-175
	0 No credit	<i>Booklet 7</i>		Q55	
	1 Full Credit	<i>Booklet 8</i>		Q45	
	9 Missing	<i>Booklet 9</i>		Q64	
	n N/A				
	r Not reached				
R239Q02	<i>Allergies – Q2</i>		FR	(A1)	176-176
	0 No credit	<i>Booklet 7</i>		Q56	
	1 Full Credit	<i>Booklet 8</i>		Q46	
	9 Missing	<i>Booklet 9</i>		Q65	
	n N/A				
	r Not reached				
R241Q02	<i>WarrantyHotPoin</i>		FR	(A1)	177-177
	0 No credit	<i>Booklet 1</i>		Q29	
	1 Full Credit	<i>Booklet 2</i>		Q12	
	9 Missing	<i>Booklet 6</i>		Q45	
	n N/A				
	r Not reached				
R245Q01	<i>MovieReviews – Q1</i>		FR	(A1)	178-178
	0 No credit	<i>Booklet 1</i>		Q18	
	1 Full Credit	<i>Booklet 2</i>		Q1	
	9 Missing	<i>Booklet 6</i>		Q34	
	n N/A				
	r Not reached				
R245Q02	<i>MovieReviews – Q2</i>		FR	(A1)	179-179
	0 No credit	<i>Booklet 1</i>		Q19	
	1 Full Credit	<i>Booklet 2</i>		Q2	
	9 Missing	<i>Booklet 6</i>		Q35	
	n N/A				
	r Not reached				
R246Q01	<i>Contact Employee</i>		FR	(A1)	180-180
	0 No credit	<i>Booklet 7</i>		Q53	
	1 Full Credit	<i>Booklet 8</i>		Q43	
	9 Missing	<i>Booklet 9</i>		Q62	
	n N/A				
	r Not reached				
R246Q02	<i>Contact Employee</i>		FR	(A1)	181-181
	0 No credit	<i>Booklet 7</i>		Q54	
	1 Full Credit	<i>Booklet 8</i>		Q44	
	9 Missing	<i>Booklet 9</i>		Q63	
	n N/A				
	r Not reached				

S114Q03T	Greenhouse – Q3		FR	(A1)	182-182
	0 No credit	Booklet 2		Q43	
	1 Full Credit	Booklet 8		Q21	
	9 Missing				
	n N/A				
S114Q04T	Greenhouse – Q4		FR	(A1)	183-183
	0 No credit	Booklet 2		Q44	
	1 Partial Credit	Booklet 8	Q22		
	2 Full Credit				
	9 Missing				
S114Q05T	Greenhouse – Q5		FR	(A1)	184-184
	0 No credit	Booklet 2		Q45	
	1 Full Credit	Booklet 8		Q23	
	9 Missing				
	n N/A				
S128Q01	Cloning – Q1		MC	(A1)	185-185
	1 Full Credit	Booklet 0		Q25	
	2 No Credit	Booklet 2		Q51	
	3 No Credit	Booklet 6		Q49	
	4 No Credit	Booklet 9		Q13	
S128Q02	Cloning – Q2		MC	(A1)	186-186
	1 Full Credit	Booklet 2		Q52	
	2 No Credit	Booklet 6		Q50	
	3 No Credit	Booklet 9		Q14	
	4 No Credit				
S128Q03T	Cloning – Q3		CMC	(A1)	187-187
	0 No credit	Booklet 0		Q26	
	1 No credit	Booklet 2		Q53	
	2 Full Credit	Booklet 6		Q51	
	8 M/R				
	9 Missing				
	n N/A	Booklet 9		Q15	
	r Not reached				

S129Q01	<i>Daylight – Q1</i>		MC	(A1)	188-188
	1 Full Credit	<i>Booklet 4</i>		Q63	
	2 No Credit	<i>Booklet 9</i>		Q5	
	3 No Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S129Q02T	<i>Daylight – Q2</i>		FR	(A1)	189-189
	0 No credit	<i>Booklet 4</i>		Q64	
	1 Partial Credit	<i>Booklet 9</i>		Q6	
	2 Full Credit				
	9 Missing				
	n N/A				
	r Not reached				
S131Q02T	<i>GoodVibrations</i>		FR	(A1)	190-190
	0 No credit	<i>Booklet 2</i>		Q54	
	1 Full Credit	<i>Booklet 6</i>		Q52	
	9 Missing	<i>Booklet 9</i>		Q16	
	n N/A				
	r Not reached				
S131Q04T	<i>GoodVibrations</i>		FR	(A1)	191-191
	0 No credit	<i>Booklet 2</i>		Q55	
	1 Full Credit	<i>Booklet 6</i>		Q53	
	9 Missing	<i>Booklet 9</i>		Q17	
	n N/A				
	r Not reached				
S133Q01	<i>Research – Q1</i>		MC	(A1)	192-192
	1 No Credit	<i>Booklet 0</i>		Q23	
	2 No Credit	<i>Booklet 2</i>		Q39	
	3 Full Credit	<i>Booklet 8</i>		Q17	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

S133Q03	Research – Q3		MC	(A1)	193-193
	1 Full Credit	Booklet 0		Q24	
	2 No Credit	Booklet 2		Q40	
	3 No Credit	Booklet 8		Q18	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S133Q04T	Research – Q4		CMC	(A1)	194-194
	0 No credit	Booklet 2		Q41	
	1 No credit	Booklet 8		Q19	
	2 No credit				
	3 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S195Q02T	Semmelweis – Q2		FR	(A1)	195-195
	0 No credit	Booklet 4		Q50	
	1 Partial Credit	Booklet 6		Q54	
	2 Full Credit	Booklet 8		Q26	
	9 Missing				
	n N/A				
	r Not reached				
S195Q04	Semmelweis – Q4		MC	(A1)	196-196
	1 Full Credit	Booklet 4		Q51	
	2 No Credit	Booklet 6		Q55	
	3 No Credit	Booklet 8		Q27	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S195Q05T	Semmelweis – Q5		FR	(A1)	197-197
	0 No credit	Booklet 0		Q29	
	1 Full Credit	Booklet 4		Q52	
	9 Missing	Booklet 6		Q56	
	n N/A	Booklet 8		Q28	
	r Not reached				

S195Q06	<i>Semmelweis – Q6</i>		MC	(A1)	198-198
	1 No Credit	<i>Booklet 0</i>		Q30	
	2 Full Credit	<i>Booklet 4</i>		Q53	
	3 No Credit	<i>Booklet 6</i>		Q57	
	4 No Credit	<i>Booklet 8</i>		Q29	
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S209Q02T	<i>Tidal Power – Q2</i>		FR	(A1)	199-199
	0 No credit	<i>Booklet 4</i>		Q58	
	1 Full Credit	<i>Booklet 6</i>		Q62	
	9 Missing	<i>Booklet 8</i>		Q34	
	n N/A				
	r Not reached				
S213Q01T	<i>Clothes – Q1</i>		CMC	(A1)	200-200
	0 No credit	<i>Booklet 2</i>		Q46	
	1 No credit	<i>Booklet 8</i>		Q24	
	2 No credit				
	3 No credit				
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S213Q02	<i>Clothes – Q2</i>		MC	(A1)	201-201
	1 Full Credit	<i>Booklet 2</i>		Q47	
	2 No Credit	<i>Booklet 8</i>		Q25	
	3 No Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S252Q01	<i>SouthRainea – Q1</i>		MC	(A1)	202-202
	1 No Credit	<i>Booklet 0</i>		Q27	
	2 No Credit	<i>Booklet 4</i>		Q54	
	3 Full Credit	<i>Booklet 6</i>		Q58	
	4 No Credit	<i>Booklet 8</i>		Q30	
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				

S252Q02	<i>SouthRainea – Q2</i>		MC	(A1)	203-203
	1	Full Credit	<i>Booklet 0</i>	Q28	
	2	No Credit	<i>Booklet 4</i>	Q55	
	3	No Credit	<i>Booklet 6</i>	Q59	
	4	No Credit	<i>Booklet 8</i>	Q31	
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
S252Q03T	<i>SouthRainea – Q3</i>		CMC	(A1)	204-204
	0	No credit	<i>Booklet 4</i>	Q56	
	1	No credit	<i>Booklet 6</i>	Q60	
	2	Full Credit	<i>Booklet 8</i>	Q32	
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
S253Q01T	<i>Ozone – Q1</i>		FR	(A1)	205-205
	0	No credit	<i>Booklet 4</i>	Q59	
	1	Partial Credit	<i>Booklet 9</i>	Q1	
	2	Full Credit			
	3	Full Credit			
	9	Missing			
	n	N/A			
	r	Not reached			
S253Q02	<i>Ozone – Q2</i>		MC	(A1)	206-206
	1	No Credit	<i>Booklet 4</i>	Q60	
	2	Full Credit	<i>Booklet 9</i>	Q2	
	3	No Credit			
	4	No Credit			
	8	M/R			
	9	Missing			
	n	N/A			
	r	Not reached			
S253Q05	<i>Ozone – Q5</i>		FR	(A1)	207-207
	0	No credit	<i>Booklet 4</i>	Q61	
	1	Full Credit	<i>Booklet 9</i>	Q3	
	9	Missing			
	n	N/A			
	r	Not reached			

S256Q01	<i>Spoons – Q1</i>		MC	(A1)	208-208
	1 Full Credit	<i>Booklet 0</i>		Q21	
	2 No Credit	<i>Booklet 2</i>		Q42	
	3 No Credit	<i>Booklet 8</i>		Q20	
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
S268Q01	<i>Algae – Q1</i>		MC	(A1)	209-209
	1 No Credit	<i>Booklet 4</i>		Q65	
	2 No Credit	<i>Booklet 9</i>		Q7	
	3 Full Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
S268Q02T	<i>Algae – Q2</i>		FR	(A1)	210-210
	0 No credit	<i>Booklet 4</i>		Q66	
	1 Full Credit	<i>Booklet 9</i>		Q8	
	9 Missing				
	n N/A				
	r Not reached				
S268Q06	<i>Algae – Q6</i>		MC	(A1)	211-211
	1 No Credit	<i>Booklet 4</i>		Q67	
	2 Full Credit	<i>Booklet 9</i>		Q9	
	3 No Credit				
	4 No Credit				
	8 M/R				
	9 Missing				
	n N/A				
S269Q01	<i>Earth – Q1</i>		FR	(A1)	212-212
	0 No credit	<i>Booklet 0</i>		Q22	
	1 Full Credit	<i>Booklet 2</i>		Q48	
	9 Missing	<i>Booklet 6</i>		Q46	
	n N/A	<i>Booklet 9</i>		Q10	
	r Not reached				

S269Q03T	Earth – Q3		FR	(A1)	213-213
	0 No credit	Booklet 2		Q49	
	1 Full Credit	Booklet 6		Q47	
	9 Missing	Booklet 9		Q11	
	n N/A				
	r Not reached				
S269Q04T	Earth – Q4		CMC	(A1)	214-214
	0 No credit	Booklet 2		Q50	
	1 No credit	Booklet 6		Q48	
	2 No credit	Booklet 9		Q12	
	3 No credit				
	4 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
S270Q03T	Ozone – Q3		CMC	(A1)	215-215
	0 No credit	Booklet 4		Q62	
	1 No credit	Booklet 9		Q4	
	2 Full Credit				
	8 M/R				
	9 Missing				
	n N/A				
	r Not reached				
MSCALE	Maths Scalable			(A1)	217-217
RSCALE	Reading Scalable			(A1)	218-218
SSCALE	Science Scalable			(A1)	219-219
CLCUSE	Calculator Use			(A1)	221-221
	1 No calculator				
	2 A simple calculator				
	3 A scientific calculator				
	4 A programmable calculator				
	5 A graphics calculator				
	8 M/R				
	9 Mis				
	n N/A				
CNT	Country alphanumeric code			(A3)	223-225

APPENDIX 8 SCORES ALLOCATED TO THE ITEMS

	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>		<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>
M033Q01	4			S114Q03T	1		
M034Q01T	1			S114Q04T	1	2	
M037Q01T	1			S114Q05T	1		
M037Q02T	1			S128Q01	1		
M124Q01	2			S128Q02	1		
M124Q03T	1	2	3	S128Q03T	2		
M136Q01T	2			S129Q01	1		
M136Q02T	1			S129Q02T	1	2	
M136Q03T	1	2		S131Q02T	1		
M144Q01T	1			S131Q04T	1		
M144Q02T	1			S133Q01	3		
M144Q03	1			S133Q03	1		
M144Q04T	1			S133Q04T	3		
M145Q01T	1			S195Q02T	1	2	
M148Q02T	1	2		S195Q04	1		
M150Q01	1			S195Q05T	1		
M150Q02T	1	2		S195Q06	2		
M150Q03T	1			S209Q02T	1		
M155Q01	1			S213Q01T	4		
M155Q02T	1	2		S213Q02	1		
M155Q03T	1	2		S252Q01	3		
M155Q04T	4			S252Q02	1		
M159Q01	2			S252Q03T	2		
M159Q02	3			S253Q01T	1	2,3	
M159Q03	2			S253Q02	2		
M159Q05	2			S253Q05	1		
M161Q01	4			S256Q01	1		
M179Q01T	1	2		S268Q01	3		
M192Q01T	2,3			S268Q02T	1		
M266Q01T	4			S268Q06	2		
M273Q01T	1			S269Q01	1		
				S269Q03T	1		
				S269Q04T	4		
				S270Q03T	2		

	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>	<u>Reading Sub-scale</u>
R040Q02	1			Retrieving information
R040Q03A	1			Retrieving information
R040Q03B	1			Reflecting
R040Q04	1			Interpreting
R040Q06	3			Interpreting
R055Q01	4			Interpreting
R055Q02	1			Reflecting
R055Q03	2			Interpreting
R055Q05	1			Interpreting
R061Q01	1,2			Interpreting
R061Q03	3			Interpreting
R061Q04	3			Interpreting
R061Q05	1			Reflecting
R067Q01	3			Interpreting
R067Q04	1	2		Reflecting
R067Q05	1	2		Reflecting
R070Q02	1			Retrieving information
R070Q03	3			Retrieving information
R070Q04	1			Reflecting
R070Q07T	4	5		Interpreting
R076Q03	1			Retrieving information
R076Q04	1			Interpreting
R076Q05	1			Retrieving information
R077Q02	2			Retrieving information
R077Q03	1	2		Reflecting
R077Q04	2			Interpreting
R077Q05	2			Reflecting
R077Q06	4			Interpreting
R081Q01	2			Interpreting
R081Q05	1			Interpreting
R081Q06A	1			Reflecting
R081Q06B	1			Reflecting
R083Q01	4			Interpreting
R083Q02	1			Retrieving information
R083Q03	1			Retrieving information

	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>	<u>Reading Sub-scale</u>
R083Q04	1			Interpreting
R083Q06	1			Reflecting
R086Q04	1			Reflecting
R086Q05	3			Interpreting
R086Q07	1			Reflecting
R088Q01	4			Interpreting
R088Q03	1	2		Retrieving information
R088Q04T	3,4	5		Interpreting
R088Q05T	3			Reflecting
R088Q07	3			Reflecting
R091Q05	1			Retrieving information
R091Q06	2			Interpreting
R091Q07B	2			Reflecting
R093Q03	1			Interpreting
R099Q04B	2	3		Reflecting
R100Q04	2			Retrieving information
R100Q05	3			Interpreting
R100Q06	3			Interpreting
R100Q07	2			Interpreting
R101Q01	3			Interpreting
R101Q02	2			Interpreting
R101Q03	2			Reflecting
R101Q04	3			Interpreting
R101Q05	4			Interpreting
R101Q08	3			Interpreting
R102Q01	2			Interpreting
R102Q04A	1			Interpreting
R102Q05	1			Interpreting
R102Q06	1			Reflecting
R102Q07	3			Interpreting
R104Q01	1			Retrieving information
R104Q02	1			Retrieving information
R104Q05	1	2		Retrieving information
R104Q06	1			Retrieving information
R110Q01	4			Interpreting

	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>	<u>Reading Sub-scale</u>
R110Q04	1			Retrieving information
R110Q05	1			Retrieving information
R110Q06	4			Reflecting
R111Q01	4			Interpreting
R111Q02B	1	2		Reflecting
R111Q04	3			Retrieving information
R111Q06B	1	2		Reflecting
R119Q01	3			Interpreting
R119Q04	3			Interpreting
R119Q05	1	2,3		Reflecting
R119Q06	2			Retrieving information
R119Q07	1,2	3		Interpreting
R119Q08	1,2			Interpreting
R119Q09T	1	2		Reflecting
R120Q01	2			Interpreting
R120Q03	1			Interpreting
R120Q06	1			Reflecting
R120Q07T	3			Reflecting
R122Q02	4			Interpreting
R122Q03T	5	6		Retrieving information
R216Q01	3			Interpreting
R216Q02	1			Reflecting
R216Q03T	1			Interpreting
R216Q04	1			Retrieving information
R216Q06	4			Interpreting
R219Q01T	1			Retrieving information
R219Q01E	1			Interpreting
R219Q02	1			Reflecting
R220Q01	1			Retrieving information
R220Q02B	1			Interpreting
R220Q04	4			Interpreting
R220Q05	3			Interpreting
R220Q06	3			Interpreting
R225Q02	1			Interpreting
R225Q03	2			Retrieving information

	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>	<u>Reading Sub-scale</u>
R225Q04	2			Retrieving information
R227Q01	2			Interpreting
R227Q02T	5,6	7		Retrieving information
R227Q03	1			Reflecting
R227Q04	1	2		Interpreting
R227Q06	1			Retrieving information
R228Q01	4			Interpreting
R228Q02	2			Interpreting
R228Q04	4			Interpreting
R234Q01	1			Retrieving information
R234Q02	1			Retrieving information
R236Q01	1			Interpreting
R236Q02	1,2			Interpreting
R237Q01	1			Retrieving information
R237Q03	1			Interpreting
R238Q01	1			Retrieving information
R238Q02	1			Interpreting
R239Q01	1			Interpreting
R239Q02	1			Retrieving information
R241Q02	1			Interpreting
R245Q01	1			Retrieving information
R245Q02	1			Interpreting
R246Q01	1			Retrieving information
R246Q02	1			Retrieving information