

Albania, United Arab Emirates, Argentina, Australia, Austria, Belgium, Bulgaria, Brazil, Canada, Swi - Programme for International Student Assessment 2012

Organisation for Economic Co-operation and Development

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Overview

Identification

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WLD_2012_PISA_v01_M

Version

VERSION DESCRIPTION

PRODUCTION DATE

NOTES

Overview

ABSTRACT

“What is important for citizens to know and be able to do?” That is the question that underlies the triennial survey of 15-year-old students around the world known as the Programme for International Student Assessment (PISA). PISA assesses the extent to which students near the end of compulsory education have acquired key knowledge and skills that are essential for full participation in modern societies. The assessment, which focuses on reading, mathematics, science and problem solving, does not just ascertain whether students can reproduce knowledge; it also examines how well students can extrapolate from what they have learned and apply that knowledge in unfamiliar settings, both in and outside of school. This approach reflects the fact that modern economies reward individuals not for what they know, but for what they can do with what they know. All 34 OECD member countries and 31 partner countries and economies participated in PISA 2012, representing more than 80% of the world economy.

With mathematics as its primary focus, the PISA 2012 assessment measured 15-year-olds’ capacity to reason mathematically and use mathematical concepts, procedures, facts and tools to describe, explain and predict phenomena, and to make the wellfounded judgements and decisions needed by constructive, engaged and reflective citizens. Literacy in mathematics defined this way is not an attribute that an individual has or does not have; rather, it is a skill that can be acquired and used, to a greater or lesser extent, throughout a lifetime.

The PISA assessment provides three main types of outcomes:

- basic indicators that provide a baseline profile of students’ knowledge and skills;
- indicators that show how skills relate to important demographic, social, economic and educational variables; and
- indicators on trends that show changes in student performance and in the relationships between student-level and school-level variables and outcomes.

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS

To better compare student performance internationally, PISA targets a specific age of students. PISA students are aged between 15 years 3 months and 16 years 2 months at the time of the assessment, and have completed at least 6 years of formal schooling. They can be enrolled in any type of institution, participate in full-time or part-time education, in academic or vocational programmes, and attend public or private schools or foreign schools within the country. Using this age across countries and over time allows PISA to compare consistently the knowledge and skills of individuals born in the same year who are still in school at age 15, despite the diversity of their education histories in and outside of school.

Scope

NOTES

The scope of the PISA 2012 study includes the following:

- Students' family background
- Learning mathematics
- Problem solving experiences
- General computer use
- Use of Information and Communication Technology (ICT)
- Structure and organisation of the school
- School resources
- School instruction curriculum and assessment
- School climate
- Financial education at school

Coverage

GEOGRAPHIC COVERAGE

PISA 2012 covered 34 OECD countries and 31 partner countries and economies. All countries attempted to maximise the coverage of 15-year-olds enrolled in education in their national samples, including students enrolled in special educational institutions.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Organisation for Economic Co-operation and Development	

OTHER PRODUCER(S)

Name	Affiliation	Role
Australian Council for Educational Research		
Netherlands National Institute for Educational Measurement		
Service de Pédagogie Expérimentale at Université de Liège		
Westat (USA)		
Educational Testing Service (USA)		
National Institute for Educational Research (Japan)		

FUNDING

Name	Abbreviation	Role
Organisation for Economic Co-operation and Development	OECD	

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
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Development Economics Data Group	DECDG	The World Bank	Documentation of the DDI
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DATE OF METADATA PRODUCTION
2014-07-20

DDI DOCUMENT VERSION
Version 01 (June 2014)

DDI DOCUMENT ID
DDI_WLD_2012_PISA_v01_M_WB

Sampling

Sampling Procedure

The accuracy of any survey results depends on the quality of the information on which national samples are based as well as on the sampling procedures. Quality standards, procedures, instruments and verification mechanisms were developed for PISA that ensured that national samples yielded comparable data and that the results could be compared with confidence.

Most PISA samples were designed as two-stage stratified samples (where countries applied different sampling designs. The first stage consisted of sampling individual schools in which 15-year-old students could be enrolled. Schools were sampled systematically with probabilities proportional to size, the measure of size being a function of the estimated number of eligible (15-year-old) students enrolled. A minimum of 150 schools were selected in each country (where this number existed), although the requirements for national analyses often required a somewhat larger sample. As the schools were sampled, replacement schools were simultaneously identified, in case a sampled school chose not to participate in PISA 2012.

Experts from the PISA Consortium performed the sample selection process for most participating countries and monitored it closely in those countries that selected their own samples. The second stage of the selection process sampled students within sampled schools. Once schools were selected, a list of each sampled school's 15-year-old students was prepared. From this list, 35 students were then selected with equal probability (all 15-year-old students were selected if fewer than 35 were enrolled). The number of students to be sampled per school could deviate from 35, but could not be less than 20.

Around 510 000 students between the ages of 15 years 3 months and 16 years 2 months completed the assessment in 2012, representing about 28 million 15-year-olds in the schools of the 65 participating countries and economies.

Deviations from Sample Design

Response Rate

Data-quality standards in PISA required minimum participation rates for schools as well as for students. These standards were established to minimise the potential for response biases. In the case of countries meeting these standards, it was likely that any bias resulting from non-response would be negligible, i.e. typically smaller than the sampling error.

A minimum response rate of 85% was required for the schools initially selected. Where the initial response rate of schools was between 65% and 85%, however, an acceptable school response rate could still be achieved through the use of replacement schools. This procedure brought with it a risk of increased response bias. Participating countries were, therefore, encouraged to persuade as many of the schools in the original sample as possible to participate. Schools with a student participation rate between 25% and 50% were not regarded as participating schools, but data from these schools were included in the database and contributed to the various estimations. Data from schools with a student participation rate of less than 25% were excluded from the database.

PISA 2012 also required a minimum participation rate of 80% of students within participating schools. This minimum participation rate had to be met at the national level, not necessarily by each participating school. Follow-up sessions were required in schools in which too few students had participated in the original assessment sessions. Student participation rates were calculated over all original schools, and also over all schools, whether original sample or replacement schools, and from the participation of students in both the original assessment and any follow-up sessions. A student who participated in the original or follow-up cognitive sessions was regarded as a participant. Those who attended only the questionnaire session were included in the international database and contributed to the statistics presented in this publication if they provided at least a description of their father's or mother's occupation.

Weighting

Questionnaires

Overview

Paper-based tests were used, with assessments lasting two hours. In a range of countries and economies, an additional 40 minutes were devoted to the computer-based assessment of mathematics, reading and problem solving.

Test items were a mixture of questions requiring students to construct their own responses and multiple-choice items. The items were organised in groups based on a passage setting out a real-life situation. A total of about 390 minutes of test items were covered, with different students taking different combinations of test items.

Students answered a background questionnaire, which took 30 minutes to complete, that sought information about themselves, their homes and their school and learning experiences. School principals were given a questionnaire, to complete in 30 minutes, that covered the school system and the learning environment. In some countries and economies, optional questionnaires were distributed to parents, who were asked to provide information on their perceptions of and involvement in their child's school, their support for learning in the home, and their child's career expectations, particularly in mathematics. Countries could choose two other optional questionnaires for students: one asked students about their familiarity with and use of information and communication technologies, and the second sought information about their education to date, including any interruptions in their schooling and whether and how they are preparing for a future career.

Data Collection

Data Collection Dates

Start	End	Cycle
2012	2012	N/A

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

This study is the product of a concerted effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD.

Questionnaires

Paper-based tests were used, with assessments lasting two hours. In a range of countries and economies, an additional 40 minutes were devoted to the computer-based assessment of mathematics, reading and problem solving.

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Supervision

Data Processing

Data Editing

Software specially designed for PISA facilitated data entry, detected common errors during data entry, and facilitated the process of data cleaning. Training sessions familiarised National Project Managers with these procedures.

Other Processing

Data Appraisal

Estimates of Sampling Error **Other forms of Data Appraisal**

Documentation

Questionnaires

Information and Communication Technology Familiarity Questionnaire for PISA 2012

Title Information and Communication Technology Familiarity Questionnaire for PISA 2012
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut für Internationale Pädagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for L  rerutdanning o
Date 2011-12-01
Language English
Filename MS12_ICT_ENG.pdf

Parent Questionnaire for PISA 2012

Title Parent Questionnaire for PISA 2012
subtitle International Option
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut f  r Internationale P  dagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for L  rerutdanning o
Date 2011-12-01
Language English
Filename MS12_PaQ_ENG.pdf

School Questionnaire for PISA 2012

Title School Questionnaire for PISA 2012
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut f  r Internationale P  dagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for L  rerutdanning o
Date 2011-12-01
Language English
Filename MS12_ScQ_ENG.pdf

Student Questionnaire Form A

Title Student Questionnaire Form A
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut f  r Internationale P  dagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for L  rerutdanning o
Language English
Filename MS12_StQ_FORM_A_ENG.pdf

Student Questionnaire Form B

Title Student Questionnaire Form B

Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut für Internationale Pädagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for Lærerutdanning o
Language English
Filename MS12_StQ_FORM_B_ENG.pdf

Student Questionnaire Form C

Title Student Questionnaire Form C
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut für Internationale Pädagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for Lærerutdanning o
Language English
Filename MS12_StQ_FORM_C_ENG.pdf

Student Questionnaire Form UH

Title Student Questionnaire Form UH
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut für Internationale Pädagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for Lærerutdanning o
Language English
Filename MS12_StQ_FORM_UH_ENG.pdf

Educational Career Questionnaire for PISA 2012

Title Educational Career Questionnaire for PISA 2012
subtitle International Option
Author(s) Australian Council for Educational Research (ACER, Australia) cApStAn Linguistic Quality Control (Belgium)
Deutsches Institut für Internationale Pädagogische Forschung (DIPF, Germany) Educational Testing Service (ETS, USA) Institutt for Lærerutdanning o
Date 2011-12-01
Language English
Filename MS12_EC_ENG.pdf

Reports

PISA 2012 Ergebnisse: Was Schülerinnen und Schüler wissen und können (Band I)

Title PISA 2012 Ergebnisse: Was Schülerinnen und Schüler wissen und können (Band I)
Author(s) OECD
Date 2013-01-01
Language German
Filename 9789264201118-sum-de.pdf

Resultados de PISA 2012: Lo que los estudiantes saben y pueden hacer (Volumn I)

Title Resultados de PISA 2012: Lo que los estudiantes saben y pueden hacer (Volumn I)
Author(s) OECD
Date 2013-01-01

Language Spanish

Filename 9789264201118-sum-es.pdf

Résultats du PISA 2012 : Savoirs et savoir-faire des élèves (Volume I)

Title Résultats du PISA 2012 : Savoirs et savoir-faire des élèves (Volume I)

Author(s) OECD

Date 2013-01-01

Language French

Filename 9789264201118-sum-fr.pdf

Risultati dell'indagine PISA 2012: quali sono le conoscenze e le capacità degli studenti (Volume I)

Title Risultati dell'indagine PISA 2012: quali sono le conoscenze e le capacità degli studenti (Volume I)

Author(s) OECD

Date 2013-01-01

Language Italian

Filename 9789264201118-sum-it.pdf

PISA 2012 Results: What Students Know and Can Do (Volume I) (Japanese)

Title PISA 2012 Results: What Students Know and Can Do (Volume I) (Japanese)

Author(s) OECD

Date 2013-01-01

Language Japanese

Filename 9789264201118-sum-jp.pdf

Strong Performers and Successful Reformers in Education: Lessons from PISA 2012 for the United States

Title Strong Performers and Successful Reformers in Education: Lessons from PISA 2012 for the United States

Author(s) The report was prepared under the responsibility of the Early Childhood and Schools Division of the OECD Directorate for Education and Skills, principally Michael Davidson, under the oversight of Andreas Schleicher, Deputy Director for Education and Skills

Date 2013-01-01

Language English

Description This report situates the performance in PISA of 15-year-olds in the United States against global patterns and trends. It goes beyond the aggregate-level analysis to analyze the strengths and weaknesses of U.S. students on different types of mathematics tasks. It also reviews the relationship with the Common Core State Standards for Mathematics (CCSSM) in order to help connect results from PISA to what the United States aspires to teach in classrooms and to inform teaching practices that can help to improve performance.

Filename PISA2012_US report_ebook(eng).pdf

England (United Kingdom) Country Note: Results from PISA 2012 Problem Solving

Title England (United Kingdom) Country Note: Results from PISA 2012 Problem Solving

Author(s) OECD

Language English

Filename PISA-2012-PS-results-eng-ENGLAND.pdf

Germany Country Note: Results from PISA 2012 Problem Solving

Title Germany Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language English
Filename PISA-2012-PS-results-eng-GERMANY.pdf

Japan Country Note: Results from PISA 2012 Problem Solving

Title Japan Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language English
Filename PISA-2012-PS-results-eng-JAPAN.pdf

Singapore Country Note: Results from PISA 2012 Problem Solving

Title Singapore Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language English
Filename PISA-2012-PS-results-eng-SINGAPORE.pdf

Spain Country Note: Results from PISA 2012 Problem Solving

Title Spain Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language English
Filename PISA-2012-PS-results-eng-SPAIN.pdf

United States Country Note: Results from PISA 2012 Problem Solving

Title United States Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language English
Filename PISA-2012-PS-results-eng-USA.pdf

Resultados PISA 2012 Resolucion de Problemas

Title Resultados PISA 2012 Resolucion de Problemas
Author(s) OECD
Language Spanish
Filename PISA-2012-PS-results-esp-SPAIN.pdf

France Note par pays: Résultats du PISA 2012 en résolution de problèmes

Title France Note par pays: Résultats du PISA 2012 en résolution de problèmes
Author(s) OECD
Language French
Filename PISA-2012-PS-results-fre-FRANCE.pdf

Japan Country Note: Results from PISA 2012 Problem Solving

Title Japan Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language Japanese
Filename PISA-2012-PS-results-jpn-JAPAN.pdf

Austria Country Note: Results from PISA 2012

Title Austria Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-austria.pdf

Belgium Country Note: Results from PISA 2012

Title Belgium Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-belgium.pdf

Brazil Country Note: Results from PISA 2012

Title Brazil Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-brazil.pdf

France Note par pays: Résultats du PISA 2012

Title France Note par pays: Résultats du PISA 2012
Author(s) OECD
Language French
Filename PISA-2012-results-france.pdf

Germany Country Note: Results from PISA 2012

Title Germany Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-germany.pdf

Deutschland Ländernotiz: Ergebnisse aus PISA 2012

Title Deutschland Ländernotiz: Ergebnisse aus PISA 2012
Author(s) OECD
Language German
Filename PISA-2012-results-germany-DEU.pdf

Italy Country Note: Results from PISA 2012

Title Italy Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-italy.pdf

Italia Nota Paese: Risultati PISA 2012

Title Italia Nota Paese: Risultati PISA 2012
Author(s) OECD
Language Italian
Filename PISA-2012-results-italy-ITA.pdf

Japan Country Note: Results from PISA 2012

Title Japan Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-japan.pdf

Japan Country Note: Results from PISA 2012 (Japanese)

Title Japan Country Note: Results from PISA 2012 (Japanese)
Author(s) OECD
Language Japanese
Filename PISA-2012-results-japan-JPN.pdf

MÉXICO Nota País: Resultados de PISA 2012

Title MÉXICO Nota País: Resultados de PISA 2012
Author(s) OECD
Language Spanish
Filename PISA-2012-results-mexico-ESP.pdf

Norway Country Note: Results from PISA 2012

Title Norway Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-norway.pdf

PISA 2012 Results in Focus

Title PISA 2012 Results in Focus
Author(s) OECD
Language English
Filename pisa-2012-results-overview.pdf

Principaux résultats de l'Enquête PISA 2012

Title Principaux résultats de l'Enquête PISA 2012
Author(s) OECD
Language French
Filename pisa-2012-results-overview-FR.pdf

PISA 2012 Ergebnisse im Fokus

Title PISA 2012 Ergebnisse im Fokus
Author(s) OECD
Language German
Filename pisa-2012-results-overview-GER.pdf

Spain Country Note: Results from PISA 2012

Title Spain Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-spain.pdf

ESPAÑA Nota País: Resultados PISA 2012

Title ESPAÑA Nota País: Resultados PISA 2012
Author(s) OECD
Language Spanish
Filename PISA-2012-results-spain-ESP.pdf

Turkey Country Note: Results from PISA 2012 Problem Solving

Title Turkey Country Note: Results from PISA 2012 Problem Solving
Author(s) OECD
Language English
Filename PISA-2012-results-turkey.pdf

United Kingdom Country Note: Results from PISA 2012

Title United Kingdom Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-UK.pdf

United States Country Note: Results from PISA 2012

Title United States Country Note: Results from PISA 2012
Author(s) OECD
Language English
Filename PISA-2012-results-US.pdf

PISA 2012 Results: What Students Know and Can Do (Volume I)

Title PISA 2012 Results: What Students Know and Can Do (Volume I)
Author(s) This report is the product of a collaborative effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat.
Date 2014-01-01
Language English
Filename pisa-2012-results-volume-I.pdf

Résultats du PISA 2012 : Savoirs et savoir-faire des élèves (Volume I)

Title Résultats du PISA 2012 : Savoirs et savoir-faire des élèves (Volume I)
Author(s) Ce rapport est le fruit d'une collaboration entre les pays et économies participant à l'enquête PISA, les experts et les institutions qui oeuvrent dans le cadre du Consortium PISA et le Secrétariat de l'OCDE.
Language French
Filename PISA-2012-results-volume-I-FR.pdf

PISA 2012 Results: Excellence through Equity (Volume II)

Title PISA 2012 Results: Excellence through Equity (Volume II)
Author(s) This report is the product of a collaborative effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat.
Language English
Filename pisa-2012-results-volume-II.pdf

PISA 2012 Results: Ready to Learn (Volume III)

Title PISA 2012 Results: Ready to Learn (Volume III)
Author(s) This report is the product of a collaborative effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat.
Language English
Filename PISA-2012-results-volume-III.pdf

PISA 2012 Results: What Makes Schools Successful? (Volume IV)

Title PISA 2012 Results: What Makes Schools Successful? (Volume IV)
Author(s) This report is the product of a collaborative effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat.
Language English
Filename pisa-2012-results-volume-IV.pdf

PISA 2012 Results: Creative Problem Solving (Volume V)

Title PISA 2012 Results: Creative Problem Solving (Volume V)
Author(s) This report is the product of a collaborative effort between the countries participating in PISA, the experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat.
Language English
Filename PISA-2012-results-volume-V.pdf

PISA im Fokus

Title PISA im Fokus
Author(s) OECD
Date 2014-04-01
Language German
Filename pisa-in-focus-n38-(deu)-final.pdf

PISA in Focus

Title PISA in Focus
Author(s) OECD
Date 2014-04-01
Language English
Filename pisa-in-focus-n38-(eng)-final.pdf

PISA in Focus (Spanish)

Title PISA in Focus (Spanish)
Author(s) OECD
Date 2014-04-01
Language Spanish
Filename PISA-in-Focus-N38-(esp).pdf

PISA à la loupe

Title PISA à la loupe
Author(s) OECD
Date 2014-04-01
Language French
Filename pisa-in-focus-n38-(fra)-final.pdf

Österreich Ländernotiz: Ergebnisse aus PISA 2012

Title Österreich Ländernotiz: Ergebnisse aus PISA 2012
Author(s) OECD
Language German
Filename PISA-results-austria-DEU.pdf

Technical documents

Codebook for PISA 2012 Main Study Cognitive Items

Title Codebook for PISA 2012 Main Study Cognitive Items
Date 2014-02-19
Language English
Filename M_cogn_codebook.pdf

Codebook for PISA 2012 Main Study Scored Cognitive Items

Title Codebook for PISA 2012 Main Study Scored Cognitive Items
Date 2014-02-19
Language English
Filename M_cogs_codebook.pdf

Codebook for PISA 2012 Main Study Parent Questionnaire

Title Codebook for PISA 2012 Main Study Parent Questionnaire
Date 2014-02-24
Language English
Filename M_par_codebook.pdf

Codebook for PISA 2012 Main Study School Questionnaire

Title Codebook for PISA 2012 Main Study School Questionnaire
Date 2014-02-19
Language English
Filename M_sch_codebook.pdf

Codebook for PISA 2012 Main Study Student Questionnaire

Title Codebook for PISA 2012 Main Study Student Questionnaire
Date 2014-03-12
Language English
Filename M_stu_codebook.pdf

Compendium for the cognitive item responses

Title Compendium for the cognitive item responses
Language English
Filename M_comp_COG_DEC03.zip

Compendium for the EC questionnaire

Title Compendium for the EC questionnaire
Language English
Filename M_comp_EC_DEC03.zip

Compendium for the ICT questionnaire

Title Compendium for the ICT questionnaire
Language English
Filename M_comp_ICT_DEC03.zip

Compendium for the parent questionnaire

Title Compendium for the parent questionnaire
Language English

Filename M_comp_PAQ_DEC03.zip

Compendium for the school questionnaire

Title Compendium for the school questionnaire

Language English

Filename M_comp_SCQ_DEC03.zip

Compendium for the student questionnaire

Title Compendium for the student questionnaire

Language English

Filename M_comp_STU_DEC03.zip
