

INTERNATIONAL DATA EXPLORER (IDE)

INSTITUTE OF EDUCATION SCIENCES

NATIONAL CENTER FOR EDUCATION STATISTICS



What is the International Data Explorer (IDE)?

The National Center for Education Statistics (NCES) has made it easier to explore and analyze large-scale international education study data. Based on the NAEP Data Explorer, the IDE is an interactive online tool with data from the

- Program for International Student Assessment (PISA),
- Progress in International Reading Literacy Study (PIRLS),
- Trends in International Mathematics and Science Study (TIMSS),
- Program for the International Assessment of Adult Competencies (PIAAC), and
- Teaching and Learning International Survey (TALIS).

What can I do with the IDE?

- Explore student and adult performance on international assessments
- Explore survey questionnaire data for thousands of variables
- Find data for the United States and more than 80 foreign education systems
- Create tables, charts, and maps
- Calculate averages, percentages, standard deviations, percentiles, and performance/proficiency levels
- Run statistical tests, including gap analyses

How do I access the IDE?

1. Visit <http://nces.ed.gov/surveys/international/ide/>
2. Select the assessment or survey you want and start exploring!
 - View “What does this IDE provide?” under each study name to learn more about each

How do I use the IDE?

1. Select Criteria
 - Choose criteria for analysis, such as subject, grade, age, year, measure, jurisdiction
2. Select Variables
 - Choose variables in areas such as student characteristics and attitudes, teacher characteristics and instructional practices, school contexts, and adult workplace experiences
3. Edit Reports
 - Give the report a title, select formatting and statistics options, and custom design the layout
4. Build Reports
 - View data tables
 - Create a chart or run a significance test, gap analysis, or regression analysis
 - Export your findings so you can save it for additional analysis or share it with others

What types of questions can the IDE help you answer?

ANSWER THIS QUESTION USING THE PIRLS IDE

What was the average reading score of 4th-grade students in the United States compared to the international average in 2011?

1. Select Criteria

- Under Subject, select Reading
- Under Grade, select Grade 4
- Under Measure, select PIRLS Reading Scale: Combined Reading
- Under Years, select 2011
- Under Jurisdictions, select International Average and United States

2. Select Variables

- Under Variable, select All students

3. Edit Reports

- Under Action, select Edit. In this tab you can give your report a title and select various format and statistics options
- Click Done

4. Build Reports

- Your data table is generated
- Click Export Reports to save or share your table in HTML, Microsoft Excel, Microsoft Word, or PDF format

		All students	
Year	Jurisdiction	Average	Standard Error
2011	International Average	500	(0.0)
	United States	556	(1.5)

ANSWER THIS QUESTION USING THE TIMSS IDE

In 2015, did U.S. 8th-grade girls or boys perform higher in science?

1. Select Criteria

- Under Subject, select Mathematics and Science
- Under Grade, select Grade 8
- Under Measure, select TIMSS Science Scale: Overall Science
- Under Years, select 2015
- Under Group, select United States

2. Select Variables

- Under Category, select Student and Family Characteristics
- Under Sub Category, select Sex
- Under variable, select Sex of student

3. Edit Reports

- Click Done after you make any optional report edits

To answer this question, we're going to run a significance test:

4. Build Reports

- Select the Significance Test tab
- In the Significance Test window, select Table
- Under Variable, select Sex of student
- Click Done

TIMSS science scale: overall science scale, grade 8
Difference in averages between variables - dependent test, for Sex of student [ITSEX]
United States, 2015

	Girl	Boy
Girl		< Diff = -5 (2.0) P-value = 0.0094
Boy	> Diff = 5 (2.0) P-value = 0.0094	

LEGEND:

<	Significantly lower.
>	Significantly higher.
x	No significant difference.

ANSWER THIS QUESTION USING THE TALIS IDE

Among jurisdictions that participated in TALIS 2013, on average, how many years of experience do male and female lower secondary education teachers have?

1. Select Criteria

- Under Analysis level, select Teacher
- Under Category, select Teacher and Principal Characteristics
- Under Sub Category, select Teacher Work Experience
- Under Measure, select Years working as teacher: Total (2013)
- Under Year, select 2013
- Under Group, select ISCED 2: Lower Secondary Education

2. Select Variables

- Under Category, select Teacher and Principal Characteristics
- Under Sub Category, select Teacher Demographics
- Under variable, select Teacher gender

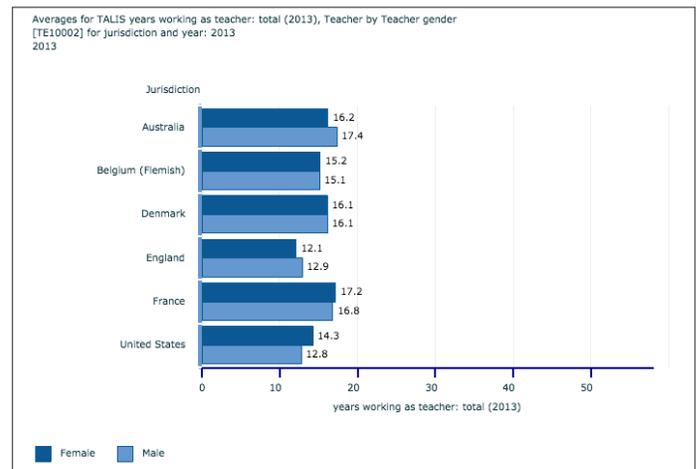
3. Edit Reports

- Under Statistics Options, select Averages
- Click Done

To answer this question, we're going to display this data using a chart instead of a table:

4. Build Reports

- Select the Chart tab
- If you would like to reduce the number of jurisdictions displayed on your chart, select the countries you would like to display under Jurisdiction
- Click Chart Options
- Under Chart Options, you can select the type of chart you would like to use to display your data and name your chart
- Click Preview Chart



ANSWER THIS QUESTION USING THE PISA IDE

In 2015, how did U.S. 15-year-olds perform in mathematics compared to students in other countries?

1. Select Criteria

- Under Subject, select Mathematics, Reading, and Science
- Under Measure, select PISA Mathematics Scale: Overall Mathematics
- Under Years, select 2015
- Under Jurisdiction, select the United States and the other jurisdictions you would like to include as part of your analysis

2. Select Variables

- Under Variable, select All students

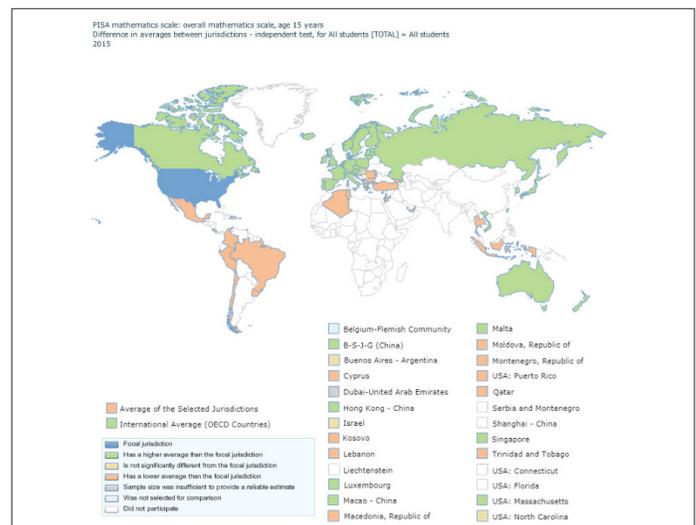
3. Edit Reports

- Click Done after you make any optional report edits

To answer this question, we're going to display this data using a map:

4. Build Reports

- Select the Significance Test tab
- In the Significance Test window, you can name your significance test and choose to display it as a table or map. Select Map
- Under Jurisdiction, select All Jurisdictions
- Click Done



ANSWER THIS QUESTION USING THE PIAAC IDE

What is the association between literacy proficiency and monthly earnings among adults ages 16-65 in the United States?

1. Select Criteria

- Under Subject, select Literacy
- Under Display, select Adults, 16-65
- Under Measure, select PIAAC Literacy: Overall scale
- Under Years, select PIAAC 2012/2014
- Under Group, unfold OECD National Entities scroll down and select United States
- Under Jurisdiction, select the United States

2. Select Variables

- Under Category, select International background questionnaire

- Under Sub Category, select Current earnings
- Under Variable, select Monthly earnings including bonuses and self-employed, in deciles (derived)

To answer this question, we're going to perform a regression analysis:

3. Build Reports

- Select the Regression Analysis tab
- In the Regression Analysis window, you can choose the variables you'd like to include as part of your regression analysis. Select All Variables
- Click Done
- Click Export Reports to save or share your regression analysis in HTML, Microsoft Excel, Microsoft Word, or PDF format

Helpful Tips

Be sure to click Done when you are finished editing or working with a table, chart, or graphic to be able to save and export it.

Always Export your reports, tables, maps, and charts before leaving the **Build Reports** screen. They will not remain available if you choose new variables or edit the format.

If you know what variable you are looking for in Step 2 - Select Variables, you can use the search box, located above the years, to find it.

The search function only works if you type complete words. For example, "mathe" will not provide any results, but "mathematics" will.

Use the Help Guides, available on the IDE homepage, for additional information and guidance or by clicking **Help** within any of the IDEs.

Technical Requirements for IDE

Target screen resolution is **1024 x 768**.

You can use the IDE on the following internet browsers: **Internet Explorer version 10 or higher**, **Firefox version 3.0 or higher**, **Google Chrome**, and **Apple Safari**.

Enable JavaScript and pop-ups in your browser.

Adobe Flash Player 9.0.115 or higher is recommended.



NCES international programs: <http://nces.ed.gov/surveys/international/index.asp>

IDE Website: <http://nces.ed.gov/surveys/international/ide/>

Contact: NCESinternational@ed.gov

Twitter: Follow us @EdNCES