NCES International Data Explorer (IDE)

What is the International Data Explorer (IDE)?

The National Center for Education Statistics (NCES) has made it easy to explore and analyze large-scale international education study data. 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),
- Teaching and Learning International Survey (TALIS), and
- International Computer and Information Literacy Study (ICILS).

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 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 to learn more

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

https://nces.ed.gov/surveys/international/ide/
What types of questions can the IDE help you answer?

1. **Select Criteria**
   - Under Subject, select PIRLS
   - Under Grade, select Grade 4
   - Under Measure, select PIRLS Reading Scale: Combined Reading
   - Under Years, select 2016
   - Under Jurisdictions, select Average of Countries 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, or Microsoft Word format

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**What was the average reading score of 4th-grade students in the United States compared to the international average in 2016? (PIRLS IDE)**

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

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 button
   - In the Significance Test window, select Table
   - Under Variable, select Sex of student
   - Click Done
Among jurisdictions that participated in TALIS 2013, on average, how many years of experience do male and female lower secondary education teachers have? (TALIS IDE)

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 button
   - If you would like to reduce the number of jurisdictions displayed on your chart, select the countries you would like to display under Jurisdiction
   - Select the type of chart you would like to use to display your data
   - Click Create Chart

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

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 chart instead of a table:

4. Build Reports
   - Select the Significance Test button
   - 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
What is the association between literacy proficiency and monthly earnings among adults ages 16–65 in the United States? (PIAAC IDE)

1. Select Criteria
   - 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 and scroll down to bottom of the list
   - 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)

3. Edit Reports
   - Click done after you make any optional report edits

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

4. Build Reports
   - Select the Regression Analysis button
   - 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, or Microsoft Word format

Additional Support

Use the Help Guides, available from the IDE homepage, or click Help within any of the IDEs.

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.

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.

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