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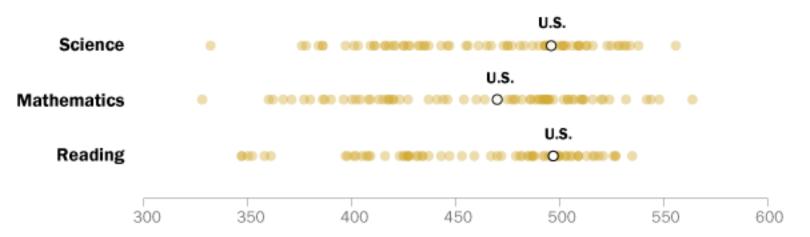
FEBRUARY 15, 2017

U.S. students' academic achievement still lags that of their peers in many other countries

BY DREW DESILVER (HTTP://WWW.PEWRESEARCH.ORG/STAFF/DREW-DESILVER)

Internationally, U.S. stands in middle of pack on science, math, reading scores

Average scores of 15-year-olds taking the 2015 Program for International Student Assessment



Note: Scale ranges from 0-1,000. Results from China not included because only four provinces participated in PISA 2015. Source: OECD, PISA 2015

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How do U.S. students compare with their peers around the world? Recently released data from international math and science assessments indicate that U.S. students continue to rank around the middle of the pack, and behind many other advanced industrial nations.

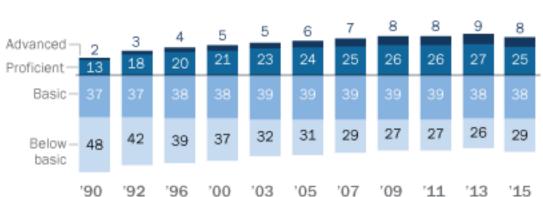
One of the biggest cross-national tests is the Programme for International Student Assessment (http://www.oecd.org/pisa/aboutpisa/) (PISA), which every three years measures reading ability, math and science literacy and other key skills among 15-year-olds in dozens of developed and developing countries. The most recent PISA results, from 2015, placed the U.S. an unimpressive 38th

b740-11e6-a677-b608fbb3aaf6_story.html?utm_term=.e99466bb5b12) out of 71 countries in math and 24th in science. Among the 35 members of the Organization for Economic Cooperation and Development, which sponsors the PISA initiative, the U.S. ranked 30th in math and 19th in science.

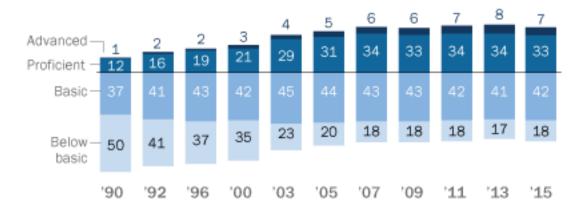
Younger American students fare somewhat better on a similar cross-national assessment, the Trends in International Mathematics and Science Study (https://nces.ed.gov/TIMSS/) . That study, known as TIMSS, has tested students in grades four and eight every four years since 1995. In the most recent tests, from 2015, 10 countries (out of 48 total) had statistically higher average fourth-grade math scores than the U.S., while seven countries had higher average science scores. In the eighth-grade tests, seven out of 37 countries had statistically higher average math scores than the U.S., and seven had higher science scores.

After years of growth, math proficiency of U.S. students dips

% at each achievement level of the National Assessment of Educational Progress (NAEP)



8TH GRADERS



4TH GRADERS

Source: NAEP Data Explorer, National Center for Education Statistics

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Another long-running testing effort is the National Assessment of Educational Progress (http://www.nationsreportcard.gov/), a project of the federal Education Department. In the most recent NAEP results, from 2015, average math scores for fourth- and eighth-graders fell for the first time since 1990. A team from Rutgers University is analyzing the NAEP data (https://nsf.gov/awardsearch/showAward? AWD_ID=1641257&HistoricalAwards=false) to try to identify the reasons for the drop in math scores. The average fourth-grade NAEP math score in 2015 was 240 (on a scale of 0 to 500), the same level as in 2009 and down from 242 in 2013. The average eighth-grade score was 282 in 2015, compared with 285 in 2013; that score was the lowest since 2007. (The NAEP has only tested 12th-graders in math four times since 2005; their 2015 average score of 152 on a 0-to-300 scale was one point lower than in 2013 and 2009.)

Looked at another way, the 2015 NAEP rated 40% of fourth-graders, 33% of eighth-graders and 25% of 12thgraders as "proficient" or "advanced" in math. While far fewer fourth- and eighth-graders now rate at "below basic," the lowest performance level (18% and 29%, respectively, versus 50% and 48% in 1990), improvement in the top levels appears to have stalled out. (Among 12th-graders, 38% scored at the lowest performance level in math, a point lower than in 2005.)

NAEP also tests U.S. students on science, though not as regularly, and the limited results available indicate some improvement. Between 2009 and 2015, the average scores of both fourth- and eight-graders improved from 150 to 154 (on a 0-to-300 scale), although for 12th-graders the average score remained at 150. In 2015, 38% of fourth-graders, 34% of eighth-graders and 22% of 12th-graders were rated proficient or better in science; 24% of fourth-graders, 32% of eighth-graders and 40% of 12th-graders were rated "below basic."

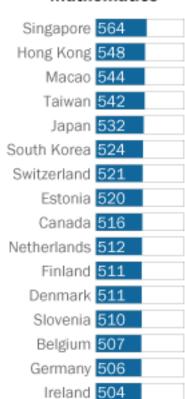
These results likely won't surprise too many people. In a 2015 Pew Research Center report (http://www.pewinternet.org/2015/01/29/public-and-scientists-views-on-science-and-society/), only 29% of Americans rated their country's K-12 education in science, technology, engineering and mathematics (known as STEM) as above average or the best in the world. Scientists were even more critical: A companion survey of members of the American Association for the Advancement of Science found that just 16% called U.S. K-12 STEM education the best or above average; 46%, in contrast, said K-12 STEM in the U.S. was below average.

How the U.S. compares on science, math and reading scores

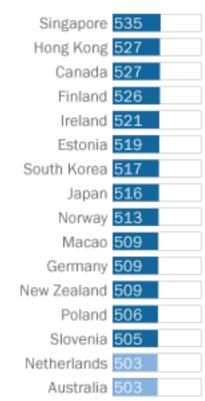
Average scores of 15-year-olds taking the 2015 Program for International Student Assessment

- Score is significantly higher than U.S.
- Score is not significantly different from U.S.
- Score is significantly lower than U.S.

Mathematics



Reading



Science

30	lence
Singapore	556
Japan	538
Estonia	534
Taiwan	532
Finland	531
Macao	529
Canada	528
Vietnam	525
Hong Kong	523
South Korea	516
Slovenia	513
New Zealand	513
Australia	510
Germany	509
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Poland	504
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New Zealand	495
Vietnam	495
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Sweden	494
Russian Fed.	494
France	493
United Kingdom	492
Portugal	492
Czech Rep.	492
Italy	490
OECD average	
Iceland	
Spain	
Luxembourg	
Latvia	
Malta	
Lithuania	
Hungary	
Slovakia	
United States	
Israel	
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Greece	
Malaysia	
Romania	
Bulgaria	
Cyprus	
United Arab Emirates	
Chile	
Turkey	
Moldova	
Uruguay	418
Montenegro	
Trinidad and Tobago	417
Thailand	415
Albania	413
Argentina	409
Mexico	408
Georgia	
Qatar	
Costa Rica	
Lebanon	
Colombia	
	387
Indonesia	
Jordan	380
Brazil	

Switzerland	506
Ireland	503
Denmark	502
Belgium	502
Poland	501
Portugal	501
Norway	498
United States	496
France	495
Austria	495
Sweden	493
Spain	493
Czech Rep.	493
OECD average	493
Latvia	490
Russian Fed.	487
Luxembourg	
-	481
Hungary	
	475
Lithuania	475
Iceland	473
Israel	467
Malta	465
Slovakia	461
Kazakhstan	456
Greece	
Chile	
Bulgaria	443
Malaysia United Arab Emirates	
Romania	
Uruguay	
Cyprus	
Argentina	
Moldova	
Albania	
Turkey	
Trinidad and Tobago	
Thailand	
Costa Rica	420
Qatar	418
Mexico	416
Colombia	416
Montenegro	411
Georgia	411
Jordan	409
Indonesia	403
Brazil	401
Peru	397
Labarar	200

Lebanon	300	Brazii	311	Turnsia	301
Tunisia	386	Macedonia	371	Dominican Republic	358
Macedonia	384	Tunisia	367	Macedonia	352
Kosovo	378	Kosovo	362	Algeria	350
Algeria	376	Algeria	360	Lebanon	347
Dominican Rep.	332	Dominican Rep.	328	Kosovo	347

Note: Scale ranges from 0-1,000. Results from China not included because only four provinces participated in PISA 2015. Source: OECD, PISA 2015

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Note: This is an update of a post originally published Feb. 2, 2015. It has been updated to include more recent data.

Related posts:

4 charts on how people around the world see education (http://www.pewresearch.org/fact-tank/2017/08/28/4-charts-on-how-people-around-the-world-see-education/)

Half of Americans think young people don't pursue STEM because it is too hard

(http://www.pewresearch.org/fact-tank/2018/01/17/half-of-americans-think-young-people-dont-pursue-stem-because-it-is-too-hard/)

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