International Science Achievement

Singapore and Korea the Top Achievers at Fourth Grade in Science. Japan, Russian Federation, and Hong Kong SAR also in the Top Five.

Singapore 590 Storea 589 Japan 569
Russian Federation 567

TIMSS 2015 Science has achievement results for **47** countries at the fourth grade.

Chinese Taipei 555 Finland 554

Hong Kong SAR 557

Kazakhstan 550 Poland 547

United States 546 Slovenia 543

Hungary 542 Sweden 540 Norway 538

England 536 Bulgaria 536 Czech Republic 534

Croatia 533 | Ireland 529 Germany 528 | Lithuania 528

Denmark 527 Canada 525 Serbia 525 Australia 524
Slovak Republic 520 Northern Ireland 520 Spain 518

Netherlands 517 Italy 516 Belgium (Flemish) 512 Portugal 508

New Zealand 506 France 487 Turkey 483 Cyprus 481 Chile 478

Bahrain 459 Georgia 451 United Arab Emirates 451 Qatar 436

Oman 431 Iran 421 Indonesia 397 Saudi Arabia 390 Morocco 352 Kuwait 337

Please see Exhibit 1.3 for statistically significant differences.

Trends at Fourth Grade Show Increases in Science Achievement Around the World

Trends 2011-2015: 41 Countries

17 Countries Higher Average Achievement



Australia, Bahrain, Croatia, Hong Kong SAR, Ireland, Japan, Kazakhstan, Lithuania, Morocco, New Zealand, Oman, Qatar, Russian Federation, Slovenia, Spain, Turkey, United Arab Emirates

16 Countries Same Average



Korea, Northern Ireland, Norway, Serbia, Singapore, Sweden, the United States

8 Countries Lower Average Achievement



Finland, Iran, Italy, Kuwait, Netherlands, Portugal, Saudi Arabia, Slovak Republic

Trends 1995-2015: 17 Countries

11 Countries Higher Average Achievement



Cyprus, England, Hong Kong SAR, Hungary, Iran, Ireland, Japan, Korea, Portugal, Singapore, Slovenia

4 Countries Same Average



2 Countries Lower Average



Netherlands, Norway

In TIMSS 2015, No Difference between Boys and Girls in Science Achievement in More than Half the Countries

Of the 47 TIMSS 2015 Countries:

- 25 countries had no difference between boys and girls in average science achievement.
- Boys had higher achievement in 11 countries, with an average difference of 8 points.
- Girls had higher achievement in 11 countries, with an average difference of 24 points.













20-year Trends Show Reduction in Boys' Advantage in Science Achievement

Trends 2011-2015: 41 Countries

- In 2011, boys had higher average achievement in 13 countries, compared to 8 countries for girls.
- In 2015, boys had higher average achievement in 11 countries, compared to 10 countries for girls.
- Among the 41 countries, there was no average achievement difference between boys and girls in 20 countries in 2011 and 20 countries in 2015.

Trends 1995-2015: 17 Countries

- In 1995, boys had higher average achievement than girls in 10 countries, with an average difference of 14 points.
 There was no average achievement difference in 6 countries.
- In 2015, boys had higher average achievement than girls in 7 countries, with an average difference of 8 points. There was no average achievement difference in 10 countries.



