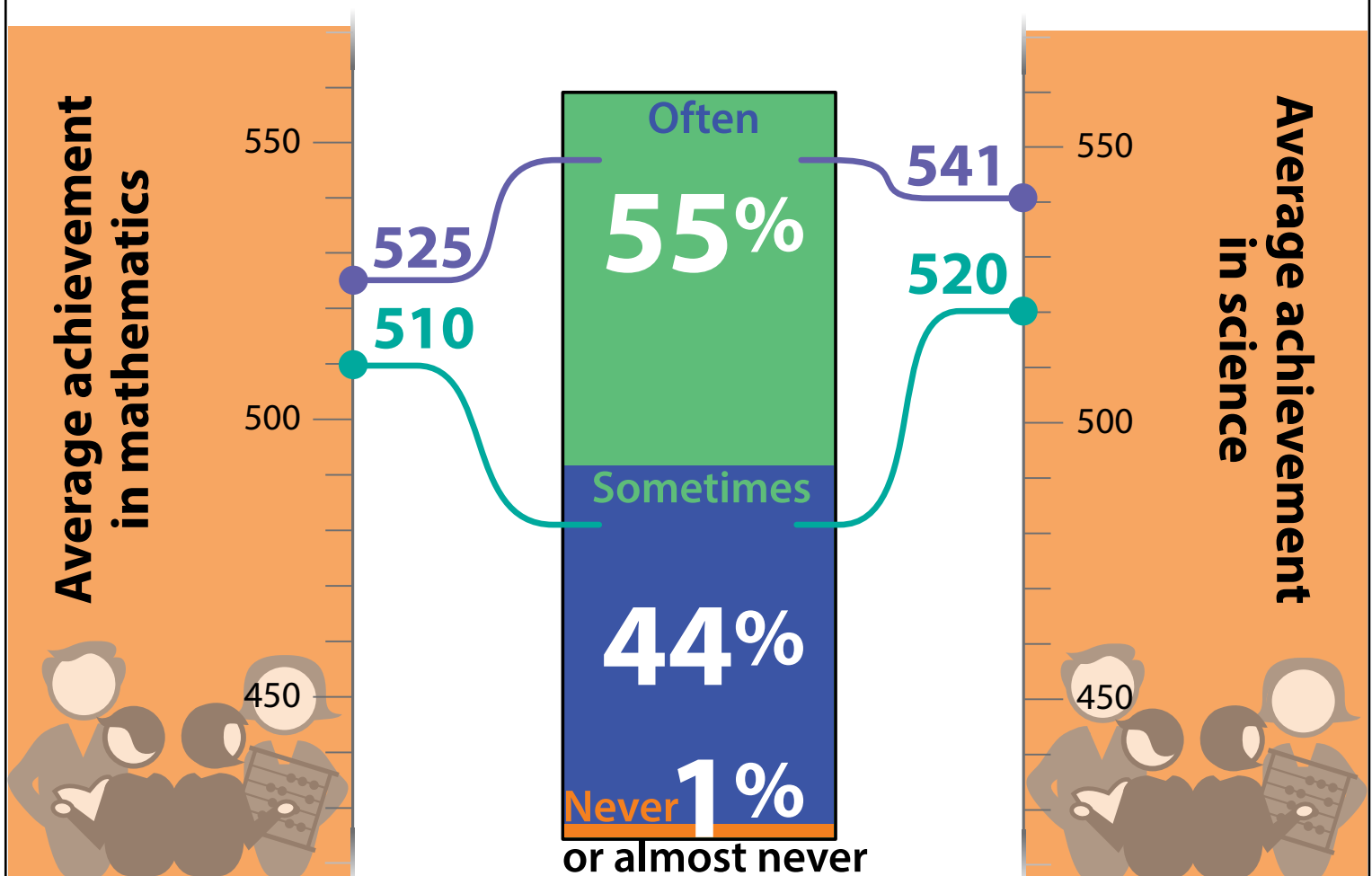


Supportive Home Environment for Learning

Early Literacy and Numeracy Activity

In Canada, there is a difference of 15 points in mathematics and 21 points in science between Grade 4 students whose parents reported spending time with them on early literacy and numeracy activities “often” and those who reported “sometimes.”

Percentage of students

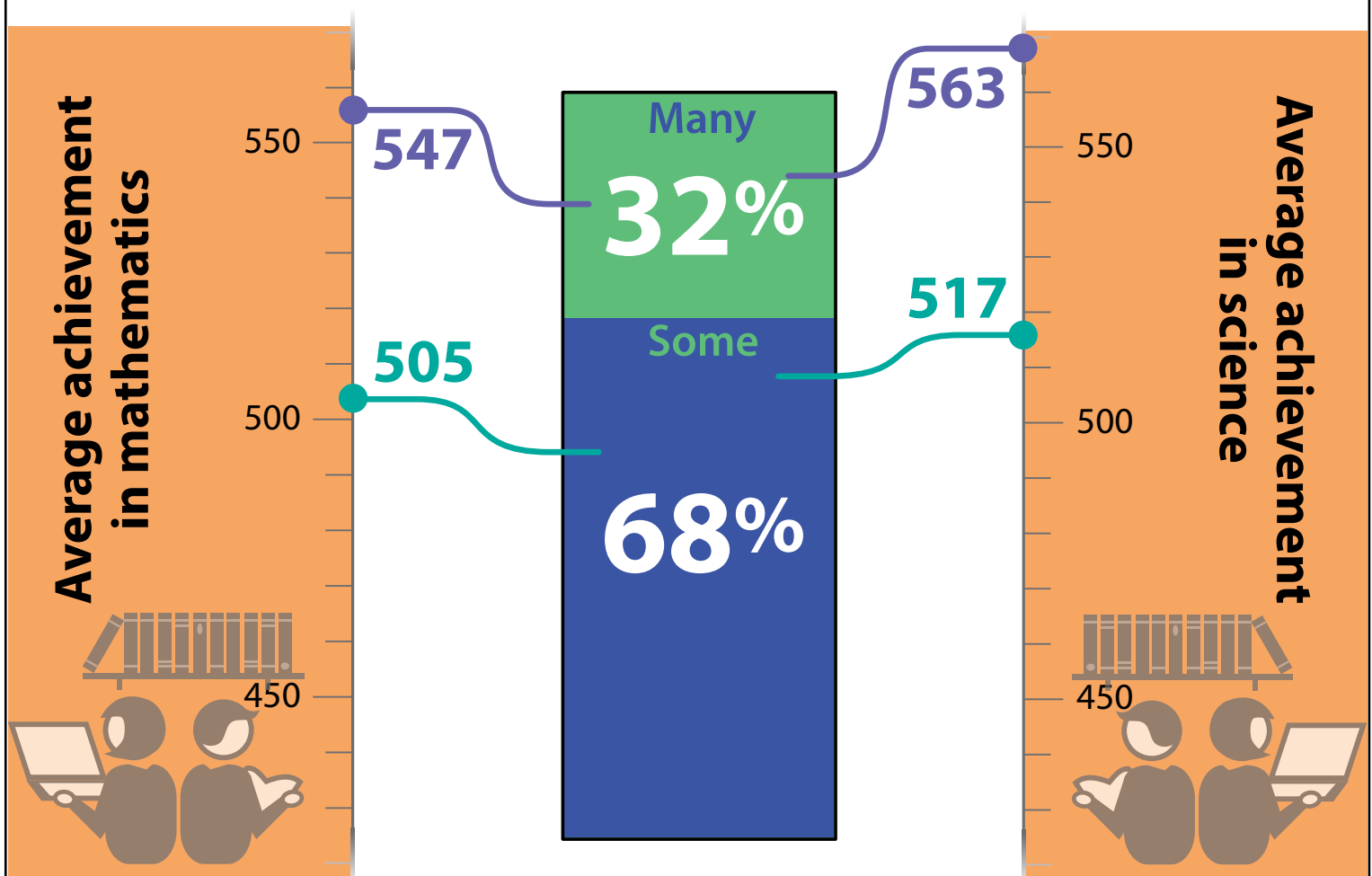


Supportive Home Environment for Learning

Home Resources for Learning

In Canada, there is a difference of 42 points in mathematics and 46 points in science between Grade 4 students whose parents reported “Many” home resources for learning and those who reported “Some.”

Percentage of students



Achievement at TIMSS International Benchmarks – Canada

TIMSS describes achievement at four international benchmarks along the mathematics achievement scale: Advanced, High, Intermediate, and Low.

Percentage of Canadian Grade 4 Students Reaching Benchmarks

**Advanced
benchmark
(625)**

In Singapore, Hong Kong SAR, and Korea 41–50% reached the Advanced benchmark. Internationally, 6% of students reached this level.

6%

Students can apply understanding and knowledge in a variety of relatively complex situations and explain their reasoning.

**High
benchmark
(550)**

31%

Students can apply knowledge and understanding to solve problems.

**Intermediate
benchmark
(475)**

69%

Students can apply basic mathematical knowledge in simple situations.

**Low
benchmark
(400)**

92%

Many countries were able to educate nearly all of their Grade 4 students to a basic level of mathematics achievement.

Students have some basic mathematical knowledge.

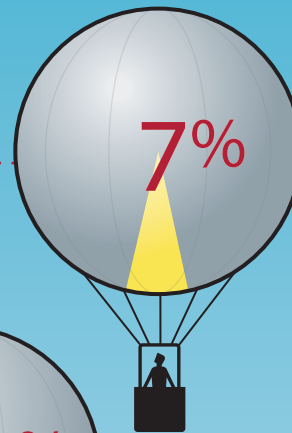
Achievement at TIMSS International Benchmarks – Canada

TIMSS describes achievement at four international benchmarks along the science achievement scale: Advanced, High, Intermediate, and Low.

Percentage of Canadian Grade 4 Students Reaching Benchmarks

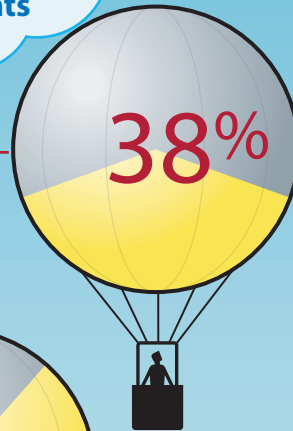
Advanced
benchmark
(625)

Highest percentage of students
reached the Advanced benchmark
in Singapore (37%) and Korea (29%).
Internationally, 7% of students
reached this level.



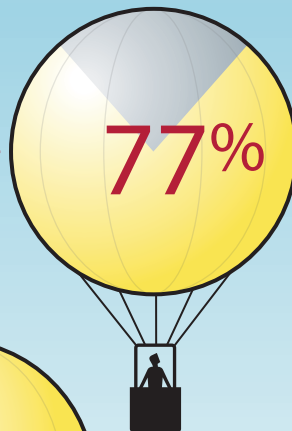
Students
communicate
understanding of life,
physical, and Earth
sciences and
demonstrate some
knowledge of
the process of
scientific inquiry.

High
benchmark
(550)



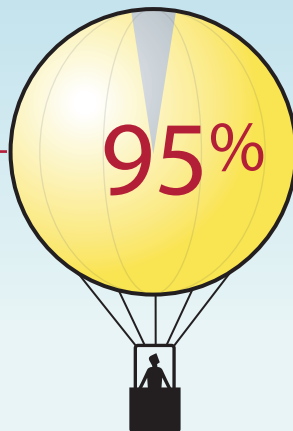
Students
communicate
and apply knowledge
of life, physical,
and Earth sciences
in everyday and
abstract contexts.

Intermediate
benchmark
(475)



Students show basic
knowledge and
understanding of
life, physical, and
Earth sciences.

Low
benchmark
(400)



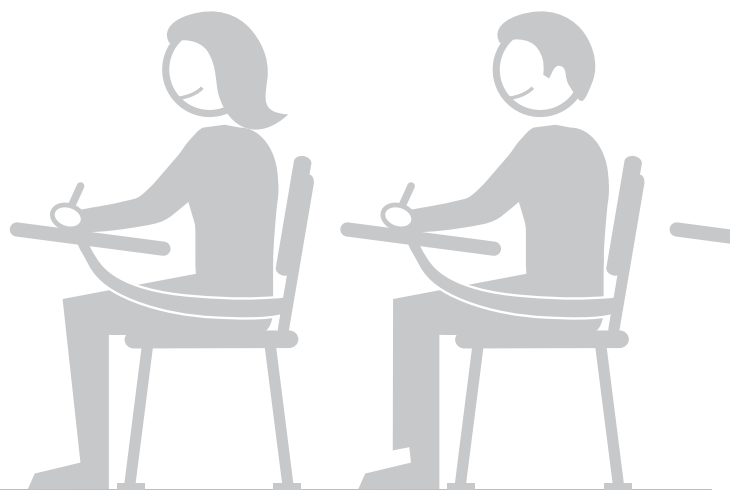
Many countries were able to
educate nearly all of their Grade 4
students to a basic level
of science achievement.

Students show basic
knowledge of life and
physical sciences.

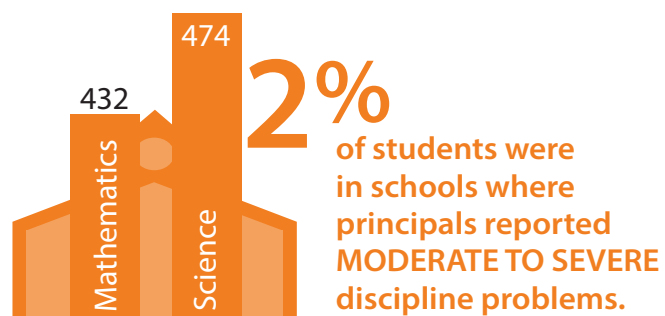
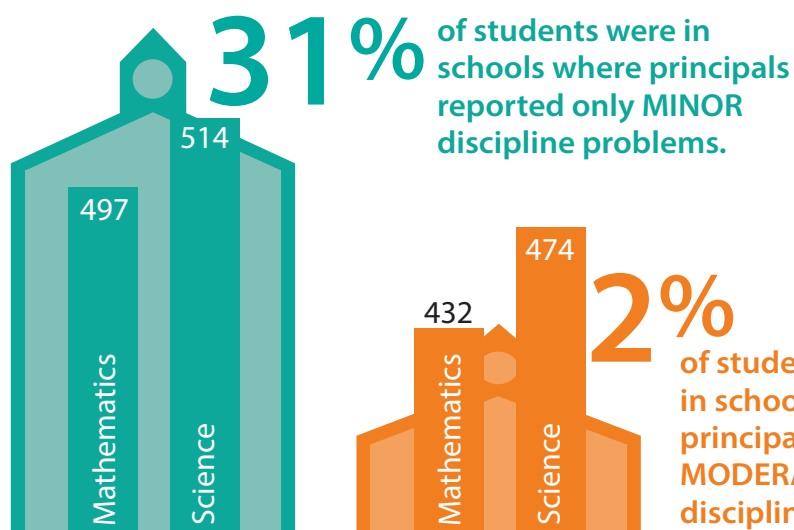
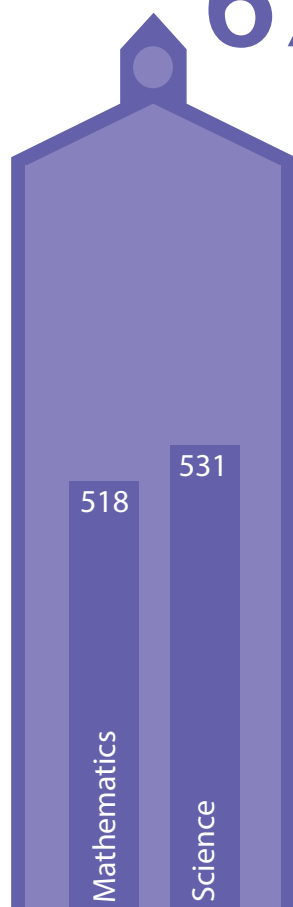
Students Are in Safe Schools

In Canada, the majority of Grade 4 students were in safe school environments according to their principals and teachers. However, students that attended schools with disorderly environments had much lower achievement than their counterparts in safe and orderly schools.

Principals' Reports



67% of students were in schools where principals reported **HARDLY ANY** discipline problems.

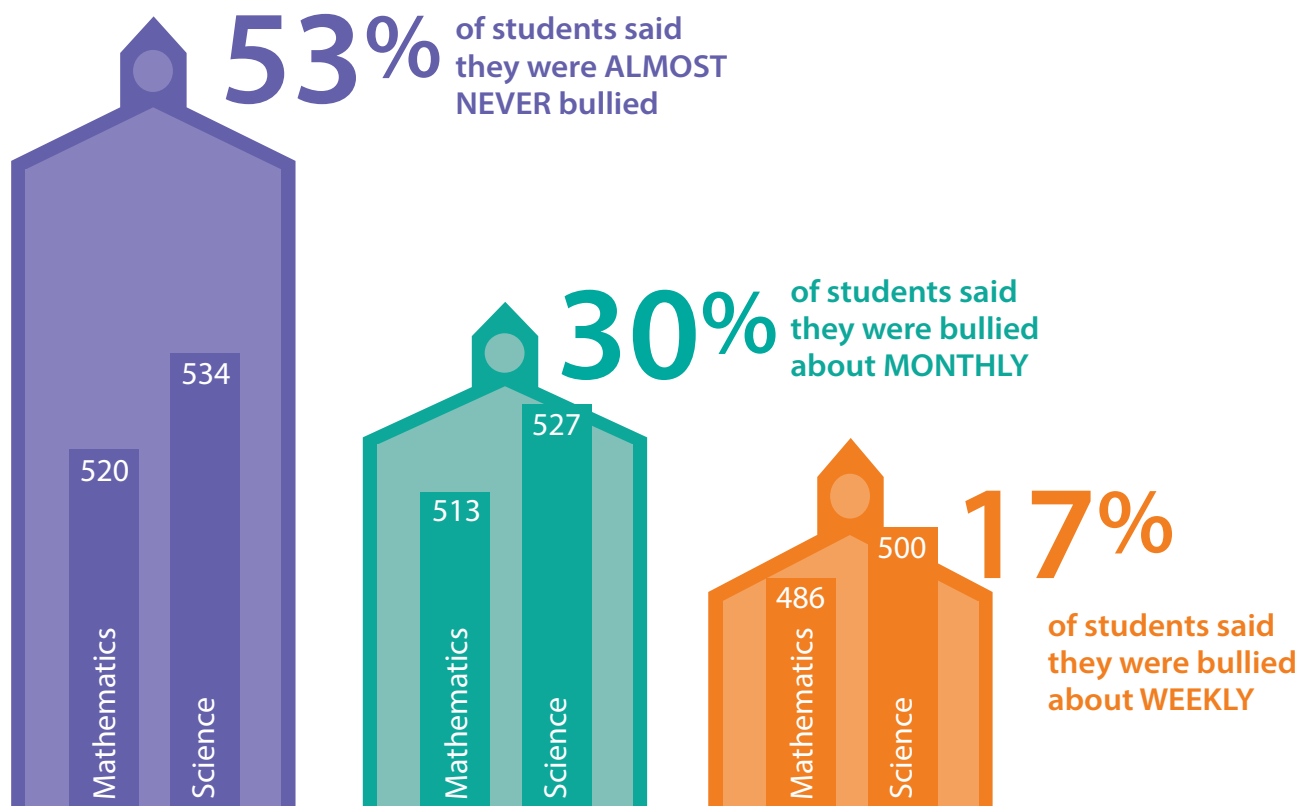


Average Achievement

Student Bullying

With the emergence of cyber-bullying, there is growing evidence that school-related bullying is on the rise and does have a negative impact on student achievement in Canada and in many other countries.

Students' Reports



Average Achievement

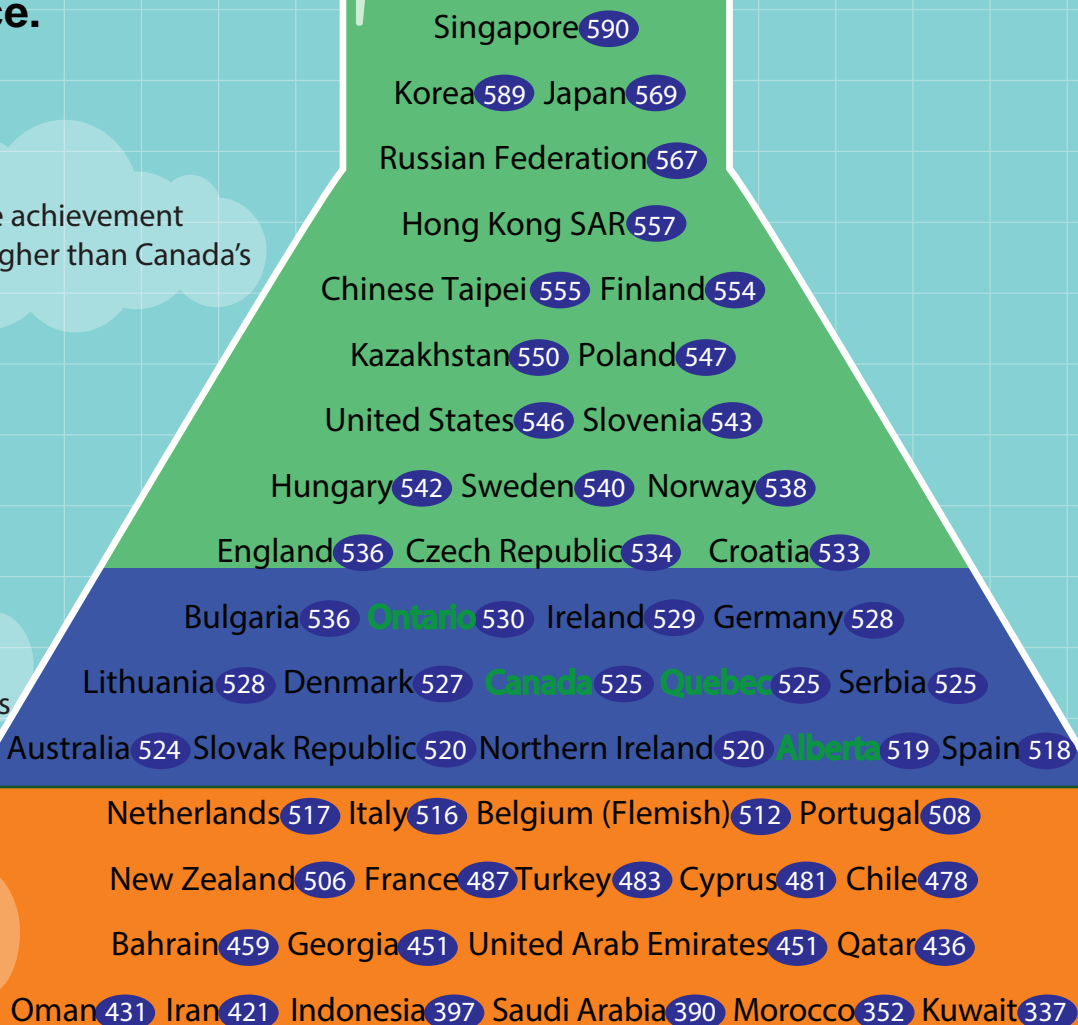
International Science Achievement

Singapore and Korea are the top achievers in Grade 4 science.

Average achievement significantly higher than Canada's

Average achievement statistically comparable to Canada's

Average achievement significantly lower than Canada's



International Mathematics Achievement

East Asian countries are top achievers in Grade 4 mathematics.

Singapore **618** Hong Kong SAR **615**
Korea **608**
Chinese Taipei **597** Japan **593**

Northern Ireland **570**

Russian Federation **564**

Norway **549** Ireland **547** England **546**

Belgium-Flemish **546** Kazakhstan **544**

Portugal **541** United States **539** Denmark **539**

Quebec **536** Lithuania **535** Finland **535** Poland **535**

Netherlands **530** Hungary **529** Czech Republic **528**

Bulgaria **524** Cyprus **523** Germany **522** Slovenia **520** Sweden **519**

Serbia **518** Australia **517** Ontario **512** Canada **511** Italy **507** Spain **505**

Croatia **502** Slovak Republic **498** New Zealand **491** France **488**

Alberta **484** Turkey **483** Georgia **463** Chile **459** United Arab Emirates **452**

Bahrain **451** Qatar **439** Iran **431** Oman **425** Indonesia **397**

Jordan **388** Saudi Arabia **383** Morocco **377** South Africa **376** Kuwait **353**

Average achievement significantly higher than Canada's

Average achievement statistically comparable to Canada's

Average achievement significantly lower than Canada's

