Participating States

Connecticut
Idaho
Illinois
Indiana
Maryland
Massachusetts
Michigan
Missouri
North Carolina
Oregon
Pennsylvania
South Carolina
Texas
Participating Districts and Consortia

Academy School District #20, Colorado Springs, CO
Chicago Public Schools, IL
Delaware Science Coalition, DE
First in the World Consortium, IL
Fremont/Lincoln/Westside Public Schools, NE
Guilford County, NC
Jersey City Public Schools, NJ
Miami-Dade County Public Schools, FL
Michigan Invitational Group, MI
Montgomery County, MD
Naperville Community Unit School District #203, IL
Project SMART Consortium, OH
Rochester City School District, NY
Southwest Pennsylvania Math and Science Collaborative, PA
Mathematics Achievement

Countries
States
Districts and Consortia

Singapore
Korea, Rep. of
Chinese Taipei
Hong Kong, SAR
Japan
Belgium (Flemish)
Netherlands
Slovak Republic
Hungary
Canada
Slovenia
Russian Federation
Australia
Finland
Czech Republic
Malaysia
Bulgaria
Latvia (LSS)

United States
England
New Zealand
Lithuania
Italy
Cyprus
Romania
Moldova
Thailand
Israel
Tunisia
Macedonia, Rep. of
Turkey
Jordan
Iran, Islamic Rep.
Indonesia
Chile
Philippines
Morocco
South Africa

Average Achievement
International Average: 487
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<th>Country</th>
<th>Code</th>
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<td>Russian Federation</td>
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<td>Italy</td>
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<td>Cyprus</td>
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<td>Romania</td>
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</tbody>
</table>
Science Achievement

Countries

Chinese Taipei
Singapore
Hungary
Japan
Korea, Rep. of
Netherlands
Australia
Czech Republic
England
Finland
Slovak Republic
Belgium (Flemish)
Slovenia
Canada
Hong Kong, SAR
Russian Federation
Bulgaria
United States
New Zealand
Latvia (LSS)
Italy
Malaysia
Lithuania
Thailand
Romania
Israel
Cyprus
Moldova
Macedonia, Rep. of
Jordan
Iran, Islamic Rep.
Indonesia
Turkey
Tunisia
Chile
Philipines
Morocco
South Africa

International Average: 488
Number of Benchmarking Participants Performing Above the International Average

- Algebra: 17
- Fractions and Number: 16
- Data Representation: 13
- Measurement: 5
- Geometry: 2
Content Areas Emphasized in Eighth-Grade in Mathematics Classes*

- Mainly Number
- Algebra
- Combined Algebra, Geometry and Number
- Combined Algebra and Geometry

*Teachers' Reports

Percentage of Students

Graphs showing the percentage of students focusing on different content areas in mathematics classes, comparing United States, Benchmarking States, and Top Asian Countries.
Number of Benchmarking Participants Performing Above the International Average

- Life Science: 21
- Inquiry and the Nature of Science: 21
- Environmental Issues: 18
- Earth Science: 17
- Chemistry: 16
- Physics: 12
High Level of Home Educational Resources

Naperville Sch. Dist. #203, IL
First in the World Consort., IL
Academy School Dist. #20, CO
Montgomery County, MD
Michigan Invitational Group, MI
Connecticut
Oregon
Canada
Michigan
Guilford County, NC
Maryland
Massachusetts
SW Math/Sci. Collaborative, PA
Fremont/Lincoln/WestSide PS, NE
Indiana
Pennsylvania
Delaware Science Coalition, DE
United States
Illinois
Project SMART Consortium, OH
Texas
Idaho
Missouri
South Carolina
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Netherlands
Russian Federation
Rochester City Sch. Dist., NY
Belgium (Flemish)
Chinese Taipei
Jersey City Public Schools, NJ
Italy
Singapore
Hong Kong, SAR

Countries
States
Districts and Consortia

Percentage of Students
High Level of Teachers’ Confidence in Preparation to Teach Mathematics

TIMSS 1999 BENCHMARKING

Countries: Netherlands, Oregon, Idaho, Chinese Taipei, Canada, Singapore, Belgium (Flemish), Hong Kong, SAR, Italy, Korea, Rep. of, Japan

States: South Carolina, Pennsylvania, Michigan, North Carolina, United States, Illinois, Massachusetts, Texas, Chicago Public Schools, IL, Indiana

Districts and Consortia: Jersey City Public Schools, NJ, Naperville Sch. Dist. #203, IL, Michigan Invitational Group, MI, SW Math/Sci. Collaborative, PA, Rochester City Sch. Dist., NY, First in the World Consort, IL, Academy School Dist. #20, CO, Maryland, Missouri, Project SMART Consortium, OH

Percentage of Students
High Level of Teachers’ Confidence in Preparation to Teach Science

Academy School Dist. #20, CO
Project SMART Consortium, OH
Connecticut
Czech Republic
Michigan Invitational Group, MI
Oregon
Maryland
Naperville Sch. Dist. #203, IL
Rochester City Sch. Dist., NY
First in the World Consort., IL
Indiana
Miami-Dade County PS, FL
Texas
Illinois
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Belgium (Flemish)
Jersey City Public Schools, NJ
Netherlands
Singapore
Canada
Chinese Taipei
Chicago Public Schools, IL
Italy
Hong Kong, SAR
Korea, Rep. of
Japan

Percentage of Students

Countries
States
Districts and Consortia
### Yearly Hours of Instructional Time

#### Mathematics

- **International Avg.**: 129
- **United States**: 144
- **Korea**: 118
- **Naperville**: 114
- **First in the World**: 114

#### Science

- **International Avg.**: 122
- **United States**: 144
- **Korea**: 117
- **Naperville**: 120
- **First in the World**: 131

**Number of Hours**
No Outside Interruptions During Class

**Mathematics**
- Korea: 57%
- Japan: 53%
- Naperville: 22%

**Science**
- Japan: 64%
- Korea: 61%
- Naperville: 30%

Percentage of Students