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 Content Areas

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*

*Teachers’ Reports

Percentage of Students

Mainly Number

Algebra

Combined Algebra, Geometry and Number

Combined Algebra and Geometry

- United States
- Benchmarking States
- 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 Teachers’ Confidence in Preparation to Teach Mathematics

Percentage of Students

Countries
States
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
South Carolina
Pennsylvania
Michigan
Project SMART Consortium, OH
North Carolina
United States
Connecticut
Illinois
Massachusetts
Texas
Chicago Public Schools, IL
Indiana
Miami-Dade County PS, FL
Gulford County, NC
Montgomery County, MD
Czech Republic
Delaware Science Coalition, DE
Fremont/Lincoln/WestSide PS, NE
Netherlands
Oregon
Idaho
Chinese Taipei
Canada
Singapore
Belgium (Flemish)
Hong Kong, SAR
Italy
Korea, Rep. of
Japan
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
Fremont/Lincoln/WestSide PS, NE
United States
North Carolina
Massachusetts
Michigan
SW Math/Sci. Collaborative, PA
South Carolina
Missouri
Pennsylvania
Guilford County, NC
Idaho
Belgium (Flemish)
Jersey City Public Schools, NJ
Netherlands
Singapore
Canada
Chicago Public Schools, IL
Chinese Taipei
Delaware Science Coalition, DE
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
No Outside Interruptions During Class

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

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

Percentage of Students