

**Table 1-1****Indicators of elementary and secondary school mathematics and science education**

Topic	Indicator
Student learning in mathematics and science	<ul style="list-style-type: none"> • Mathematics and science performance of first-time kindergarten students in the 2010–11 and 2011–12 school years • Trends in fourth, eighth, and twelfth graders’ mathematics performance through 2013 • Algebra performance of 2009 ninth graders when they were in ninth and eleventh grades (2009 and 2012) • International comparisons of 15-year-olds’ mathematics and science literacy in 2012
Student coursetaking in mathematics and science	<ul style="list-style-type: none"> • Highest mathematics and science course enrollment of eleventh graders in 2012 • Trends in participation and performance in Advanced Placement program from 2003 to 2013
Teachers of mathematics and science	<ul style="list-style-type: none"> • Degrees, certification, subject-matter preparation, and experience of mathematics and science teachers in 2012 • Professional development of mathematics and science teachers in 2012 • Salaries and working conditions of mathematics and science teachers in 2012
Instructional technology and digital learning	<ul style="list-style-type: none"> • Review of emerging practices of instructional technology and distance education and their effects on student learning
Transitions to higher education	<ul style="list-style-type: none"> • Trends in on-time high school graduation rates from 2006 to 2012 • International comparisons of secondary school graduation rates in 2012 • Immediate college enrollment from 1975 to 2013 • Choice of STEM majors among U.S. undergraduate students in the 2011–12 academic year • International comparisons of college enrollment rates in 2012

STEM = science, technology, engineering, and mathematics.

Science and Engineering Indicators 2016