TABLE 1-27

Summary of long- and short-term trends in U.S. performance on K–12 STEM indicators

(Trend)

Assessment	Long-term trend		Short-term trend	
	Date span	Trend	Date span	Trend
NAEP Mathematics Grade 4	1990–2015	^	2013–15	v
NAEP Mathematics Grade 8	1990–2015	^	2013–15	v
NAEP Mathematics Grade 12	2005–15	≈	2013–15	v
NAEP Science Grade 4	2009–15	^	na	na
NAEP Science Grade 8	2009–15	^	2011–15	^
NAEP Science Grade 12	2009–12	≈	na	na
TIMSS Mathematics Grade 4	1995–2015	^	2011–15	≈
TIMSS Mathematics Grade 8	1995–2015	^	2011–15	^
TIMSS Science Grade 4	1995–2015	≈	2011–15	≈
TIMSS Science Grade 8	1995–2015	^	2011–15	≈
TIMSS Advanced Mathematics	1995–2015	≈	na	na
TIMSS Advanced Physics	1995–2015	≈	na	na
PISA Mathematics (age 15)	2003–15	≈	2012–15	v
PISA Science (age 15)	2006–15	≈	2012–15	≈
On-time high school graduation[a]	2011–15	^	2014–15	^
Immediate college enrollment[b]	1990–2014	^	2013–14	^

≈ = indicates no significant change; ^ = upward trend in scores; v = downward trend in scores; na = not applicable because data are available for only two time points, so long term is the only trend.

NAEP = National Assessment of Educational Progress (see Appendix Table 1-1 and Appendix Table 1-3); PISA = Program for International Student Assessment (see Figure 1-5); STEM = science, technology, engineering, and mathematics; TIMSS = Trends in International Mathematics and Science Study (see Figure 1-3 and Figure 1-4).

[a] See Table 1-23.

[b] See Appendix Table 1-27.

Science and Engineering Indicators 2018