

Table 1-17
Preparation of public middle and high school mathematics and science teachers for teaching in their field: Academic years 2003–04, 2007–08, and 2011–12

(Percentage distribution)

Teaching level /field	Academic year 2003–04				Academic year 2007–08				Academic year 2011–12			
	In field ^a	Related field ^b	General education ^c	Other ^d	In field ^a	Related field ^b	General education ^c	Other ^d	In field ^a	Related field ^b	General education ^c	Other ^d
Middle school												
Mathematics	53.5	3.9	37.5	5.1	64.3	1.6	30.6	3.4	66.7	0.7	28.3	4.3
Science	67.0	na	29.2	3.8	69.7	na	27.0	3.3	74.2	na	23.4	2.4
High school												
Mathematics	87.4	2.0	3.1	7.5	88.0	1.2	3.4	7.4	90.1	1.0	4.1	4.8
Biology/life sciences	91.9	3.6	1.3	3.2	93.2	3.9	0.9	2.0	90.0	5.1	2.6	2.3
Physical sciences	78.1	19.6	0.9	1.5	81.6	15.4	1.2	1.8	79.1	16.6	1.0	3.4

na = not applicable.

^a Mathematics teachers with a degree and/or full certification in mathematics or mathematics education. Science teachers with a degree and/or full certification in science or science education.

^b Mathematics teachers with a degree and/or full certification in a field related to mathematics (e.g., science, science education, computer sciences, engineering). Science teachers with a degree and/or full certification in a field related to their teaching field (e.g., high school biology teachers with a degree and/or full certification in chemistry). This category is omitted for middle school science teachers because science teachers at this level are usually not distinguished by specific science fields such as physics, chemistry, or biology.

^c Mathematics and science teachers with a degree and/or full certification in general elementary, middle, or secondary education.

^d Mathematics and science teachers without a degree or certification in their teaching field, a related field, or general elementary, middle or secondary education.

NOTE: Percentages may not add to total because of rounding.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2014) of 2003–04, 2007–08, and 2011–12 Schools and Staffing Survey, National Center for Education Statistics. See appendix table 1-23.

Science and Engineering Indicators 2016