

Appendix table 1-16

**Middle and high school science teachers considering themselves very well prepared to teach various science topics: 2012**

(Percent)

Science topic	Middle school	High school
Earth/space science		
Earth's features and physical processes	51	47
The solar system and the universe	36	41
Climate and weather	42	39
Biology/life science		
Cell biology	49	68
Structures and functions of organisms	52	64
Genetics	41	63
Ecology/ecosystems	48	56
Evolution	33	52
Chemistry		
Elements, compounds, and mixtures	53	83
The periodic table	49	82
States, classes, and properties of matter	58	80
Atomic structure	45	80
Chemical bonding, equations, nomenclature, and reactions	31	77
Properties of solutions	33	66
Physics		
Forces and motion	42	71
Energy transfers, transformations, and conservation	37	62
Properties and behaviors of waves	23	51
Electricity and magnetism	23	43
Modern physics	5	19
Other		
Environmental and resource issues	35	37
Engineering	6	7

SOURCE: Banilower ER, Smith PS, Weiss IR, Malzahn KA, Campbell KM, Weis AM, *Report of the 2012 National Survey of Science and Mathematics Education* (2012).

*Science and Engineering Indicators 2014*