

## Standard Mathematics and Science Certificates by Certification Field and Grade Level 2014-2016

This table shows the number and percentage of initial, standard Mathematics and Science teaching certificates broken down by certification field and grade level.

**Definitions.** An initial teaching certificate is a standard or lifetime teaching certificate issued in a particular academic year to a teacher who was not issued a standard or lifetime teaching certificate in any previous academic year. A standard certificate is a certificate offered since 1998-99 that is renewed every five years. A lifetime certificate is a certificate offered before 1998-99 that did not require renewal.

### Results for Mathematics

- The standard Mathematics 7-12 certificate, first issued in academic year 2013-14, was issued more than twice as often as Mathematics 8-12 by the following academic year.
- By academic year 2014-15, the most frequently issued certificate was Mathematics 7-12, followed by Mathematics 4-8.
- Overall numbers declined somewhat over the academic years shown.

### Results for Science

- The standard Chemistry 7-12, Life Science 7-12, Physical Science 6-12, and Science Composite 7-12, first issued in academic year 2013-14, overtook the corresponding 8-12 certificates by the following academic year.
- When both the 8-12 certificate and the 6-12 or 7-12 certificate were considered:
  - Chemistry and Physical Science showed small declines.
  - Life Science and Physics/Mathematics remained relatively stable.
  - The Science Composite and Physical Science/Math/Engineering increased.
- Science Composite and Life Science certificates remained a large majority over the academic years shown.

Certification Field	Grade Level	Results for 2013 14		Results for 2014 15		Results for 2015 16	
		Number	Percent	Number	Percent	Number	Percent
Mathematics							
Mathematics	4-8	835	39.5	683	34.8	726	38.1
Mathematics	7-12	181	8.6	762	38.8	1,000	52.5
Mathematics	8-12	860	40.7	317	16.1	7	0.4
Mathematics/Science	4-8	237	11.2	201	10.2	171	9.0
<b>All Fields</b>	<b>All</b>	<b>2,113</b>	<b>100.0</b>	<b>1,963</b>	<b>100.0</b>	<b>1,904</b>	<b>100.0</b>
Science							
Chemistry	7-12	11	0.7	39	2.5	56	3.6
Chemistry	8-12	55	3.7	21	1.4	0	0.0
Life Science	7-12	71	4.7	282	18.3	360	23.2
Life Science	8-12	301	20.0	101	6.5	2	0.1
Physical Science	6-12	5	0.3	18	1.2	26	1.7
Physical Science	8-12	36	2.4	15	1.0	1	0.1
Physical Science/Math/Engineering	6-12	0	0.0	2	0.1	19	1.2
Physical Science/Math/Engineering	8-12	8	0.5	12	0.8	3	0.2
Physics/Mathematics	7-12	0	0.0	9	0.6	22	1.4
Physics/Mathematics	8-12	32	2.1	23	1.5	7	0.5
Science - Composite	4-8	398	26.5	334	21.6	353	22.7
Science - Composite	7-12	70	4.7	494	32.0	702	45.1
Science - Composite	8-12	517	34.4	194	12.6	4	0.3
<b>All Fields</b>	<b>All</b>	<b>1,504</b>	<b>100.0</b>	<b>1,544</b>	<b>100.0</b>	<b>1,555</b>	<b>100.0</b>

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*Summary of methodology.* Six tables were extracted containing identification numbers, certification areas, certification fields, and grade levels of initial, standard teaching certificates in the Mathematics and Science areas for academic years 2013-14 through 2015-16. For each academic year, certification field, and grade level, the number of certificates was obtained. Then, six additional tables were extracted containing only identification numbers and certification areas of the same certificates for the same academic years. For each year and certification area, a total number of certificates was obtained. The number for each certification field and grade level was taken as a percentage of the Mathematics or Science total. Finally, all results were combined into one table.