

Initial Mathematics and Science Teaching Certificates by Certification Field and Grade Level 2017-18 through 2020-21

This study reports the number and percentage of standard Mathematics and Science teaching certificates issued by year to candidates who did not previously hold a Texas teaching certificate. The data is reported by certificate rather than teacher and aggregated by academic year, certification field, and grade level. Some educators received certificates in Mathematics and Science concurrently. In such cases, both certificates are reported.

Definitions: An initial teaching certificate is a standard teaching certificate issued to a teacher who was not previously issued a standard or lifetime teaching certificate. Standard certificates, as defined in [19 TAC Chapter 230](#), are certificates offered since September 1, 1999 that are renewed every five years. The academic year is determined by the date of issuance. An academic year is defined as September 1 through August 31 of the following calendar year.

Mathematics Certificates

Certificate Area	Certificate Field	Grade Level	2017-18		2018-19		2019-20		2020-21	
			Number	Percent	Number	Percent	Number	Percent	Number	Percent
Mathematics	Mathematics	4-8	715	39.81%	714	40.57%	682	44.49%	840	42.75%
		7-12	918	51.11%	905	51.42%	695	45.34%	960	48.85%
	Mathematics / Science	4-8	163	9.08%	141	8.01%	156	10.18%	165	8.40%
	All Mathematics		1,796	100.00%	1,760	100.00%	1,533	100.00%	1,965	100.00%

Science Certificates

Certificate Area	Certificate Field	Grade Level	2017-18		2018-19		2019-20		2020-21	
			Number	Percent	Number	Percent	Number	Percent	Number	Percent
Science	Chemistry	7-12	76	5.09%	54	3.66%	55	4.52%	71	4.34%
	Life Science	7-12	363	24.30%	362	24.51%	294	24.14%	424	25.93%
	Physical Science	6-12	31	2.07%	41	2.78%	35	2.87%	49	3.00%
	Physical Science / Math / Engineering	6-12	22	1.47%	23	1.56%	22	1.81%	31	1.90%
	Physics / Mathematics	7-12	25	1.67%	28	1.90%	33	2.71%	40	2.45%
	Science - Composite	4-8	372	24.90%	380	25.73%	349	28.65%	452	27.65%
		7-12	605	40.50%	589	39.88%	430	35.30%	568	34.74%
All Science		1,583	100.00%	1,494	100.00%	1,477	100.00%	1,218	100.00%	

Methodology: We identified all standard teaching certificates in the certification areas of Mathematics and Science that were issued between September 1, 2017 and August 31, 2021 to educators who did not previously hold a standard or lifetime teaching certificate in the Educator Certification Online System (ECOS). One Mathematics / Science certificate for grade level 8-12 that was effective beginning in 2013 but not issued until 2018 was removed from the dataset because grade level 8-12 certificates were no longer offered after 2015. The initial certificates were categorized into academic years and aggregated by certificate field and grade level.