

## Newly Certified Mathematics and Science Teacher Demographics 2010-11 through 2019-20

This study reports the demographic data of candidates who received initial, standard teaching certificates in the certification areas of Mathematics and Science in the ten academic years from 2010-11 through 2019-20. The first table reports the gender identity of the candidates while the second reports the race / ethnic identity of the candidates.

**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 and Science Teacher Gender

Certificate Area	Academic Year	Total	Female		Male	
			Number	Percent	Number	Percent
Mathematics	2019-20	1,477	976	66.08%	501	33.92%
	2018-19	1,689	1,056	62.52%	633	37.48%
	2017-18	1,759	1,131	64.30%	628	35.70%
	2016-17	1,827	1,133	62.01%	694	37.99%
	2015-16	1,794	1,173	65.38%	621	34.62%
	2014-15	1,851	1,196	64.61%	655	35.39%
	2013-14	1,971	1,294	65.65%	677	34.35%
	2012-13	1,859	1,236	66.49%	623	33.51%
	2011-12	1,743	1,129	64.77%	614	35.23%
	2010-11	2,200	1,378	62.64%	822	37.36%
Science	2019-20	1,154	743	64.38%	411	35.62%
	2018-19	1,406	891	63.37%	515	36.63%
	2017-18	1,460	908	62.19%	552	37.81%
	2016-17	1,555	1,002	64.44%	553	35.56%
	2015-16	1,435	907	63.21%	528	36.79%
	2014-15	1,399	908	64.90%	491	35.10%
	2013-14	1,388	932	67.15%	456	32.85%
	2012-13	1,236	818	66.18%	418	33.82%
	2011-12	1,284	881	68.61%	403	31.39%
	2010-11	1,695	1,092	64.42%	603	35.58%
Both	2019-20	2,631	1,719	65.34%	912	34.66%
	2018-19	3,095	1,947	62.91%	1,148	37.09%
	2017-18	3,219	2,039	63.34%	1,180	36.66%
	2016-17	3,382	2,135	63.13%	1,247	36.87%
	2015-16	3,229	2,080	64.42%	1,149	35.58%
	2014-15	3,250	2,104	64.74%	1,146	35.26%
	2013-14	3,359	2,226	66.27%	1,133	33.73%
	2012-13	3,095	2,054	66.37%	1,041	33.63%
	2011-12	3,027	2,010	66.40%	1,017	33.60%
	2010-11	3,895	2,470	63.41%	1,425	36.59%

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Mathematics and Science Teacher Race / Ethnicity

Certificate Area	Academic Year	Total	American Indian / Alaska Native		Asian		Black / African American		Hispanic / Latino		Pacific Islander		White		Two or More Races / Ethnicities		Other / Not specified	
			Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.
Mathematics	2019-20	1,477	9	0.61%	131	8.87%	157	10.63%	361	24.44%	3	0.20%	781	52.88%	35	2.37%	0	0.00%
	2018-19	1,689	8	0.47%	130	7.70%	194	11.49%	417	24.69%	2	0.12%	899	53.23%	39	2.31%	0	0.00%
	2017-18	1,759	6	0.34%	115	6.54%	179	10.18%	463	26.32%	1	0.06%	943	53.61%	52	2.96%	0	0.00%
	2016-17	1,827	7	0.38%	101	5.53%	199	10.89%	438	23.97%	1	0.05%	1,051	57.53%	30	1.64%	0	0.00%
	2015-16	1,794	6	0.33%	137	7.64%	168	9.36%	442	24.64%	1	0.06%	995	55.46%	44	2.45%	1	0.06%
	2014-15	1,851	2	0.11%	121	6.54%	165	8.91%	450	24.31%	1	0.05%	1,073	57.97%	38	2.05%	1	0.05%
	2013-14	1,971	5	0.25%	125	6.34%	163	8.27%	450	22.83%	2	0.10%	1,197	60.73%	29	1.47%	0	0.00%
	2012-13	1,859	6	0.32%	92	4.95%	140	7.53%	387	20.82%	1	0.05%	1,204	64.77%	28	1.51%	1	0.05%
	2011-12	1,743	5	0.29%	74	4.25%	110	6.31%	377	21.63%	2	0.11%	1,139	65.35%	33	1.89%	3	0.17%
	2010-11	2,200	10	0.45%	141	6.41%	177	8.05%	422	19.18%	2	0.09%	1,414	64.27%	25	1.14%	9	0.41%
Science	2019-20	1,154	6	0.52%	100	8.67%	107	9.27%	281	24.35%	2	0.17%	632	54.77%	26	2.25%	0	0.00%
	2018-19	1,406	5	0.36%	94	6.69%	146	10.38%	327	23.26%	1	0.07%	789	56.12%	44	3.13%	0	0.00%
	2017-18	1,460	2	0.14%	107	7.33%	130	8.90%	372	25.48%	2	0.14%	814	55.75%	33	2.26%	0	0.00%
	2016-17	1,555	4	0.26%	107	6.88%	146	9.39%	357	22.96%	0	0.00%	909	58.46%	31	1.99%	1	0.06%
	2015-16	1,435	4	0.28%	98	6.83%	132	9.20%	370	25.78%	1	0.07%	807	56.24%	23	1.60%	0	0.00%
	2014-15	1,399	11	0.79%	102	7.29%	132	9.44%	305	21.80%	0	0.00%	818	58.47%	30	2.14%	1	0.07%
	2013-14	1,388	6	0.43%	74	5.33%	138	9.94%	322	23.20%	2	0.14%	820	59.08%	26	1.87%	0	0.00%
	2012-13	1,236	3	0.24%	73	5.91%	92	7.44%	250	20.23%	1	0.08%	798	64.56%	19	1.54%	0	0.00%
	2011-12	1,284	7	0.55%	76	5.92%	91	7.09%	246	19.16%	1	0.08%	845	65.81%	18	1.40%	0	0.00%
	2010-11	1,695	8	0.47%	112	6.61%	134	7.91%	318	18.76%	6	0.35%	1,094	64.54%	21	1.24%	2	0.12%
Both	2019-20	2,631	9	0.61%	131	8.87%	157	10.63%	361	24.44%	3	0.20%	781	52.88%	35	2.37%	0	0.00%
	2018-19	3,095	8	0.47%	130	7.70%	194	11.49%	417	24.69%	2	0.12%	899	53.23%	39	2.31%	0	0.00%
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	2016-17	3,382	7	0.38%	101	5.53%	199	10.89%	438	23.97%	1	0.05%	1,051	57.53%	30	1.64%	0	0.00%
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**Methodology:** All standard teaching certifications in the certification areas of Mathematics and Science regardless of grade level that were issued between September 1, 2010 and August 31, 2020 to educators who did not previously hold a standard or lifetime teaching certification were identified in the Educator Certification Online System (ECOS). The initial certificates were categorized into academic years by the certificate issue date and aggregated according to the educator's self-identified gender and race / ethnic identities.

**Note:** In our effort toward continuous improvement in data accuracy, we have updated our methodology and programming for identifying the program of the initial certification to better align with the practices of Educator Certification department. Due to these improvements, numbers reported herein may be significantly different from those reported in previous years and should not be considered comparable with reports from prior years.

The demographic data contained in this report is drawn from the ECOS database, which is self-reported by educators. This data varies from the demographic data maintained in the Public Education Information Management System (PEIMS) database, which relies on data reported to TEA by individual local education authorities annually. This should be considered when comparing data in this table with data in other reports concerning demographics of educators.