

Math and Science Teacher Demographics 2003-2012

The tables below present the number and percentage of candidates who received initial Mathematics and Science certifications over ten fiscal years, broken down by gender and by race or ethnicity. Only candidates obtaining standard and lifetime certifications are included.

Definitions. An initial teaching certificate is a standard or lifetime teaching certificate issued in a particular fiscal year to a teacher who was not issued a standard or lifetime teaching certificate in any previous fiscal 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

Mathematics teachers remained predominantly female and white in fiscal year 2011-12, despite substantial changes over time:

- The percentage of male Mathematics teachers increased over time, before declining somewhat in fiscal years 2010-11 and 2011-12.
- The percentage of white Mathematics teachers declined until fiscal year 2008-09, when it leveled off and began to increase somewhat.
- Results generally increased for Hispanic/Latino teachers.
- In recent fiscal years, results for Asian teachers have approached those for black/African American teachers.

Year	Total	Female		Male		Black/African American		White		Hispanic/Latino		Asian		Am. Indian/ Alaska Nat.		Native Hawaiian		Two or More Ethnicities		Other	
		Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.
		2011-12	1,727	1,127	65.3	600	34.7	111	6.4	1,123	65.0	382	22.1	72	4.2	4	0.2	2	0.1	33	1.9
2010-11	2,209	1,394	63.1	815	36.9	175	7.9	1,417	64.1	426	19.3	141	6.4	9	0.4	2	0.1	23	1.0	16	0.7
2009-10	2,318	1,417	61.1	901	38.9	203	8.8	1,474	63.6	426	18.4	165	7.1	7	0.3	1	0.0	16	0.7	26	1.1
2008-09	1,950	1,237	63.4	713	36.6	158	8.1	1,241	63.6	390	20.0	127	6.5	7	0.4	0	0.0	7	0.4	20	1.0
2007-08	1,955	1,262	64.6	693	35.4	155	7.9	1,250	63.9	411	21.0	105	5.4	6	0.3	3	0.2	10	0.5	15	0.8
2006-07	1,930	1,289	66.8	641	33.2	175	9.1	1,261	65.3	345	17.9	115	6.0	10	0.5	0	0.0	17	0.9	7	0.4
2005-06	1,915	1,289	67.3	626	32.7	165	8.6	1,263	66.0	329	17.2	116	6.1	13	0.7	1	0.1	18	0.9	10	0.5
2004-05	1,801	1,205	66.9	596	33.1	145	8.1	1,266	70.3	270	15.0	94	5.2	5	0.3	2	0.1	6	0.3	13	0.7
2003-04	1,742	1,145	65.7	597	34.3	149	8.6	1,110	63.7	305	17.5	140	8.0	18	1.0	0	0.0	6	0.3	14	0.8
2002-03	2,210	1,613	73.0	597	27.0	182	8.2	1,563	70.7	327	14.8	95	4.3	15	0.7	0	0.0	13	0.6	15	0.7

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Results for Science

Like Mathematics teachers, Science teachers remained largely female and white in fiscal year 2011-12, in spite of changes over time:

- The percentage of white Science teachers declined through fiscal year 2008-09, and then appeared to increase somewhat.
- Conversely, results increased for Hispanic/Latino teachers, but appeared to level off in recent years.
- Results for black/African American teachers reached a peak in about fiscal years 2006-07 and 2007-08, after which they appeared to decline.

Year	Total	Female		Male		Black/African American		White		Hispanic/Latino		Asian		Am. Indian/ Alaska Nat.		Native Hawaiian		Two or More Ethnicities		Other	
		Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.	Num.	Pct.
		2011-12	1,251	854	68.3	397	31.7	86	6.9	827	66.1	237	18.9	74	5.9	6	0.5	1	0.1	20	1.6
2010-11	1,700	1,106	65.1	594	34.9	135	7.9	1,087	63.9	323	19.0	112	6.6	9	0.5	5	0.3	20	1.2	9	0.5
2009-10	1,759	1,140	64.8	619	35.2	143	8.1	1,128	64.1	327	18.6	109	6.2	7	0.4	0	0.0	17	1.0	28	1.6
2008-09	1,741	1,194	68.6	547	31.4	166	9.5	1,082	62.1	341	19.6	86	4.9	18	1.0	0	0.0	16	0.9	32	1.8
2007-08	1,860	1,272	68.4	588	31.6	200	10.8	1,163	62.5	365	19.6	86	4.6	10	0.5	2	0.1	15	0.8	19	1.0
2006-07	1,564	1,079	69.0	485	31.0	164	10.5	1,029	65.8	260	16.6	74	4.7	7	0.4	2	0.1	16	1.0	12	0.8
2005-06	1,464	999	68.2	465	31.8	125	8.5	970	66.3	255	17.4	73	5.0	11	0.8	1	0.1	20	1.4	9	0.6
2004-05	1,316	899	68.3	417	31.7	84	6.4	914	69.5	217	16.5	74	5.6	9	0.7	0	0.0	3	0.2	15	1.1
2003-04	1,326	861	64.9	465	35.1	103	7.8	913	68.9	180	13.6	102	7.7	13	1.0	0	0.0	5	0.4	10	0.8
2002-03	1,785	1,244	69.7	541	30.3	138	7.7	1,278	71.6	239	13.4	92	5.2	21	1.2	0	0.0	7	0.4	10	0.6

Summary of methodology. Ten tables were extracted containing identification numbers, genders, and races or ethnicities of all individuals obtaining an initial standard or lifetime Mathematics teaching certificate for fiscal years 2002-03 through 2011-12. For each fiscal year, the total number of teachers was obtained, together with a sum for each gender and race or ethnicity. Each sum was taken as a percentage of the total, and all sums and percentages were combined into one table. Finally, this process was repeated to obtain the Science results.