



Appendix Table 1-21

Preparedness for various first-year teaching tasks of new public middle and high school teachers, by teaching field, minority enrollment, and school poverty level: Academic years 2003–04, 2007–08, and 2011–12

(Percentage distribution)

	Academic year 2003–04						Academic year 2007–08						Academic year 2011–12							
Teaching field/ school characteristic	Handle classroom management/ discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Select/adapt curriculum	Handle classroom management/ discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Select/adapt curriculum	Handle classroom management/ discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Differentiate instruction in the classroom	Use student assessment data to inform instruction	Meet state content standards
Mathematics	51.3	63.5	90.8	57.1	73.0	61.3	47.1	61.1	87.8	60.2	69.7	58.8	42.9	62.0	87.2	71.0	66.1	46.3	46.7	79.0
Minority enrollment (%)																				
0–5	58.2	86.8	94.4	63.9	83.6	67.0	58.9	62.7	98.9	70.9	77.2	57.6	60.2	78.7	89.0	77.3	74.0	63.4	60.0	85.2
> 5–45	54.9	68.9	93.7	61.4	78.8	67.4	49.6	70.7	90.7	63.0	75.8	60.7	46.5	66.9	92.4	76.0	69.1	51.0	48.5	86.6
> 45	46.3	52.5	87.6	51.7	65.2	54.6	43.2	53.8	83.7	56.4	63.9	57.5	37.7	55.9	83.0	66.2	62.6	40.3	43.4	72.2
School poverty level (%) ^a																				
0–10	53.9	80.5	95.6	67.1	82.6	68.8	51.6	68.9	96.3	71.4	83.9	70.7	49.2	70.1	95.0	72.8	67.9	56.9	69.2	87.1
> 10–50	51.7	67.1	91.0	56.4	73.2	63.4	47.8	64.6	85.7	57.8	70.1	56.0	45.6	66.8	90.8	75.7	70.7	50.5	47.1	87.8
> 50	48.7	48.1	87.5	51.5	66.5	52.2	44.0	52.2	87.7	60.0	63.9	58.9	38.2	55.8	82.9	66.8	61.4	41.4	43.0	69.9
Science	43.7	58.0	79.0	62.4	59.3	56.5	53.0	69.1	89.0	74.7	66.6	61.2	47.2	63.6	90.2	63.4	70.0	47.2	53.7	76.3
Minority enrollment (%)																				
0–5	53.1	71.2	91.7	71.4	66.5	58.0	57.1	81.2	95.1	66.8	78.7	54.2	46.8	74.1	91.1	59.4	69.8	47.1	50.0	79.2
> 5–45	45.1	59.7	76.5	62.3	56.6	56.6	54.9	75.1	91.6	78.8	72.2	65.1	45.3	66.8	89.9	64.0	74.7	46.2	57.5	76.7



	Academic year 2003–04						Academic year 2007–08						Academic year 2011–12							
Teaching field/ school characteristic	Handle classroom management/ discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Select/adapt curriculum	Handle classroom management/ discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Select/adapt curriculum	Handle classroom management/ discipline	Use variety of instructional methods	Teach subject matter	Use computers	Assess students	Differentiate instruction in the classroom	Use student assessment data to inform instruction	Meet state content standards
> 45	39.0	51.8	77.3	59.4	59.8	55.9	50.1	59.9	84.8	72.2	57.9	58.9	48.5	60.4	90.4	63.6	67.1	47.9	51.7	75.7
School poverty level (%) ^a																				
0–10	55.1	64.6	88.0	72.0	64.5	54.1	68.1	75.6	86.9	83.7	69.2	77.2	62.4	73.7	91.7	55.7	79.2	49.1	52.2	67.2
> 10–50	43.3	60.3	78.3	59.8	57.6	57.2	52.1	68.7	89.1	74.7	67.9	60.7	47.4	69.0	93.5	66.4	74.7	48.6	58.2	81.3
> 50	35.4	46.6	73.6	60.0	58.8	54.1	48.2	66.9	89.3	72.0	63.1	56.1	44.3	56.5	87.4	61.7	64.1	45.5	49.4	73.8
Other ^b	53.4	66.3	81.1	59.0	67.3	63.5	58.3	69.8	82.8	69.4	70.5	66.1	55.5	69.6	82.2	68.6	68.5	60.5	51.5	76.0
Minority enrollment (%)																				
0–5	61.6	75.5	84.2	63.4	73.2	68.4	61.8	73.7	87.3	72.1	74.0	66.2	56.3	69.5	84.6	70.2	65.4	62.8	50.1	77.7
> 5–45	56.2	70.5	82.1	62.7	70.8	68.4	61.7	73.7	83.1	71.6	73.4	69.0	59.5	73.6	82.5	72.1	69.2	59.7	52.8	76.3
> 45	48.3	59.6	79.3	54.3	62.2	57.5	54.6	65.7	81.5	67.0	67.3	63.5	51.7	66.0	81.6	65.2	68.5	60.8	50.5	75.5
School poverty level (%) ^a																				
0–10	62.2	73.2	84.2	59.9	74.0	72.9	64.6	75.2	84.0	79.4	75.2	73.2	57.7	72.7	87.0	75.8	74.5	64.8	53.1	78.5
> 10–50	54.6	69.3	82.4	60.7	69.2	65.0	58.8	71.2	84.1	69.1	71.9	66.4	55.8	72.7	82.4	68.4	68.9	60.6	49.6	76.8
> 50	45.9	56.9	76.7	54.9	59.9	55.7	54.0	65.1	79.8	65.8	65.9	62.2	54.5	66.4	80.4	67.3	67.7	59.5	53.0	74.9

^a School poverty level is percentage of students in school qualifying for free/reduced-price lunch.



^b Other teachers include those who teach any subject other than mathematics or science.

NOTES: New teachers refer to teachers with fewer than 5 years of teaching experience. The Schools and Staffing survey asked these teachers how well they were prepared to perform various tasks during their first year of teaching. Response categories included Very well prepared, Well prepared, Somewhat prepared, and Not at all prepared. Percentages based on teachers responding Very well prepared or Well prepared.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2014) of 2003–04, 2007–08, and 2011–12 Schools and Staffing Survey, National Center for Education Statistics.
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