

Table SK12-14

**Subject-matter preparation of public middle and high school mathematics and science teachers, by teaching field and selected school characteristics: 2017–18**

(Percent distribution)

| Teaching field and selected school characteristic | In field <sup>a</sup> | Related field <sup>b</sup> | General education <sup>c</sup> | Other <sup>d</sup> |
|---|-----------------------|----------------------------|--------------------------------|--------------------|
| Public middle school                              |                       |                            |                                |                    |
| Mathematics                                       | 69                    | 2                          | 24                             | 5                  |
| Minority enrollment (percent)                     |                       |                            |                                |                    |
| 0–24  | 75                    | 3                          | 20                             | 2                  |
| 25–49   | 75                    | s                          | 20                             | 4                  |
| 50–74   | 63                    | s                          | 30                             | 6                  |
| 75 or more  | 61                    | 2                          | 29                             | 8                  |
| School poverty level (percent) <sup>e</sup>       |                       |                            |                                |                    |
| 0–34  | 76                    | 2                          | 20                             | 3                  |
| 35–49   | 73                    | s                          | 19                             | 7                  |
| 50–74   | 67                    | 2                          | 27                             | 3                  |
| 75 or more  | 62                    | 2                          | 28                             | 7                  |
| Community type                                    |                       |                            |                                |                    |
| City  | 67                    | 1                          | 26                             | 6                  |
| Suburban  | 71                    | 2                          | 22                             | 5                  |
| Town  | 68                    | 2                          | 26                             | 5                  |
| Rural   | 72                    | s                          | 25                             | s                  |
| Region  |                       |                            |                                |                    |
| Northeast   | 75                    | 3                          | 15                             | 7                  |
| Midwest   | 72                    | 3                          | 22                             | s                  |
| South   | 65                    | s                          | 29                             | 5                  |
| West  | 71                    | 2                          | 23                             | 4                  |
| Science   | 76                    | na                         | 20                             | 4                  |
| Minority enrollment (percent)                     |                       |                            |                                |                    |
| 0–24  | 77                    | na                         | 19                             | 4                  |
| 25–49   | 74                    | na                         | 22                             | 4                  |
| 50–74   | 79                    | na                         | 19                             | s                  |
| 75 or more  | 76                    | na                         | 19                             | 6                  |
| School poverty level (percent) <sup>e</sup>       |                       |                            |                                |                    |
| 0–34  | 80                    | na                         | 17                             | 3                  |
| 35–49   | 78                    | na                         | 18                             | s                  |
| 50–74   | 77                    | na                         | 20                             | 3                  |
| 75 or more  | 68                    | na                         | 26                             | 6                  |
| Community type                                    |                       |                            |                                |                    |
| City  | 72                    | na                         | 24                             | 4                  |
| Suburban  | 80                    | na                         | 17                             | 3                  |
| Town  | 70                    | na                         | 21                             | 8                  |
| Rural   | 78                    | na                         | 20                             | s                  |
| Region  |                       |                            |                                |                    |
| Northeast   | 82                    | na                         | 13                             | s                  |
| Midwest   | 79                    | na                         | 20                             | s                  |
| South   | 72                    | na                         | 23                             | 4                  |
| West  | 77                    | na                         | 18                             | 5                  |
| Public high school                                |                       |                            |                                |                    |
| Mathematics                                       | 87                    | 3                          | 4                              | 6                  |
| Minority enrollment (percent)                     |                       |                            |                                |                    |
| 0–24  | 88                    | 2                          | 4                              | 5                  |
| 25–49   | 91                    | 2                          | 3                              | 4                  |

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|---|-----------------------|----------------------------|--------------------------------|--------------------|
| 50–74   | 87                    | 2                          | 6                              | 5                  |
| 75 or more  | 83                    | 4                          | 4                              | 9                  |
| School poverty level (percent) <sup>e</sup>       |                       |                            |                                |                    |
| 0–34  | 88                    | 3                          | 5                              | 4                  |
| 35–49   | 87                    | 3                          | 4                              | 6                  |
| 50–74   | 91                    | 2                          | 3                              | 5                  |
| 75 or more  | 83                    | 3                          | 5                              | 9                  |
| Community type                                    |                       |                            |                                |                    |
| City  | 86                    | 3                          | 4                              | 8                  |
| Suburban  | 88                    | 3                          | 5                              | 5                  |
| Town  | 89                    | s                          | 5                              | 5                  |
| Rural   | 88                    | 4                          | 3                              | 5                  |
| Region  |                       |                            |                                |                    |
| Northeast   | 85                    | 4                          | 5                              | 7                  |
| Midwest   | 91                    | s                          | 3                              | 4                  |
| South   | 87                    | 3                          | 5                              | 5                  |
| West  | 86                    | 3                          | 4                              | 7                  |
| Biology and life sciences                         | 90                    | 6                          | 2                              | 3                  |
| Minority enrollment (percent)                     |                       |                            |                                |                    |
| 0–24  | 92                    | 3                          | 3                              | s                  |
| 25–49   | 87                    | 7                          | 3                              | s                  |
| 50–74   | 93                    | 5                          | s                              | s                  |
| 75 or more  | 85                    | 11                         | s                              | 4                  |
| School poverty level (percent) <sup>e</sup>       |                       |                            |                                |                    |
| 0–34  | 92                    | 4                          | s                              | s                  |
| 35–49   | 93                    | 5                          | s                              | s                  |
| 50–74   | 87                    | 10                         | s                              | 3                  |
| 75 or more  | 87                    | 8                          | s                              | 3                  |
| Community type                                    |                       |                            |                                |                    |
| City  | 88                    | 8                          | 3                              | s                  |
| Suburban  | 92                    | 4                          | s                              | 4                  |
| Town  | 90                    | 8                          | s                              | s                  |
| Rural   | 87                    | 8                          | s                              | s                  |
| Region  |                       |                            |                                |                    |
| Northeast   | 96                    | s                          | s                              | s                  |
| Midwest   | 94                    | 4                          | s                              | s                  |
| South   | 81                    | 12                         | 2                              | 5                  |
| West  | 95                    | 4                          | s                              | s                  |
| Physical sciences                                 | 76                    | 21                         | 1                              | 3                  |
| Minority enrollment (percent)                     |                       |                            |                                |                    |
| 0–24  | 80                    | 17                         | 2                              | s                  |
| 25–49   | 78                    | 20                         | s                              | s                  |
| 50–74   | 69                    | 28                         | #                              | 3                  |
| 75 or more  | 73                    | 19                         | s                              | 8                  |
| School poverty level (percent) <sup>e</sup>       |                       |                            |                                |                    |
| 0–34  | 84                    | 14                         | 1                              | s                  |
| 35–49   | 70                    | 27                         | s                              | s                  |
| 50–74   | 71                    | 25                         | s                              | s                  |

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| Teaching field and selected school characteristic | In field <sup>a</sup> | Related field <sup>b</sup> | General education <sup>c</sup> | Other <sup>d</sup> |
|---|-----------------------|----------------------------|--------------------------------|--------------------|
| 75 or more  | 71                    | 21                         | #                              | 8                  |
| Community type                                    |                       |                            |                                |                    |
| City  | 72                    | 23                         | s                              | 5                  |
| Suburban  | 83                    | 15                         | s                              | 1                  |
| Town  | 72                    | 26                         | #                              | s                  |
| Rural   | 67                    | 28                         | s                              | 4                  |
| Region  |                       |                            |                                |                    |
| Northeast   | 91                    | 6                          | s                              | s                  |
| Midwest   | 79                    | 18                         | s                              | 2                  |
| South   | 60                    | 36                         | s                              | 3                  |
| West  | 80                    | 14                         | s                              | s                  |

# = rounds to zero; na = not applicable; s = suppressed for reasons of confidentiality and/or reliability.

<sup>a</sup> Mathematics teachers with a degree and/or full certification in mathematics or mathematics education and science teachers with a degree and/or full certification in science or science education.<sup>b</sup> Mathematics teachers with a degree and/or full certification in a field related to mathematics (e.g., science, science education, computer sciences, engineering). Science teachers with a degree and/or full certification in a field related to their teaching field (e.g., high school biology teachers with a degree and/or full certification in chemistry). This category is omitted for middle school science teachers because science teachers at this level are usually not distinguished by specific science fields such as physics, chemistry, or biology.<sup>c</sup> Mathematics and science teachers with a degree and/or full certification in general elementary, middle, or secondary education.<sup>d</sup> Mathematics and science teachers who did not have a degree or certification in their teaching field, a related field, or general elementary, middle, or secondary education.<sup>e</sup> School poverty level is the percentage of students in school eligible for free or reduced-price lunch.**Note(s):**

Percentages may not add to 100% because of rounding.

**Source(s):**

National Center for Science and Engineering Statistics, special tabulations (2020) of the 2017–18 National Teacher and Principal Survey, National Center for Education Statistics.

*Science and Engineering Indicators*