Reported by Physics Students
Students were scored according to their responses concerning the availability of four home resources on the Home Educational Resources scale. Students with Many Resources had a score of at least 11.4, which is the point on the scale corresponding to students reporting that they had more than 100 books in the home, both of the home study supports, and that at least one parent had finished university and that at least one parent was a professional, on average. Students with Few Resources had a score no higher than 5.8, which is the scale point corresponding to students reporting that they had 25 or fewer books in the home, neither of the home study supports, and that neither parent had gone beyond upper-secondary education and that neither parent was a small business owner or had a clerical or professional occupation, on average. All other students were assigned to the Some Resources category.

| Country | Many Resources |  | Some Resources |  | Few Resources |  | Average <br> Scale Score |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent of Students | Average Achievement | Percent of Students | Average Achievement | Percent of Students | Average Achievement |  |
| Norway | 51 (1.4) | 529 (4.5) | 48 (1.4) | 485 (5.1) | 0 (0.1) | ~ | 11.1 (0.05) |
| Sweden | 41 (1.1) | 498 (6.0) | 58 (1.1) | 427 (5.9) | 1 (0.2) | ~ ~ | 10.7 (0.06) |
| United States | 36 (3.0) | 481 (9.7) | 62 (2.7) | 415 (9.9) | 2 (0.5) | ~ ~ | 10.4 (0.14) |
| Slovenia | 29 (1.8) | 559 (7.9) | 70 (1.9) | 521 (3.6) | 0 (0.2) | ~ ~ | 10.2 (0.06) |
| France | 28 (1.0) | 410 (4.9) | 71 (1.0) | 360 (4.1) | 1 (0.2) | ~ ~ | 10.0 (0.05) |
| Portugal | 26 (1.9) | 500 (5.5) | 70 (1.9) | 457 (5.0) | 3 (0.6) | 410 (16.7) | 9.6 (0.10) |
| Russian Federation | 22 (1.4) | 533 (7.6) | 78 (1.4) | 501 (7.7) | 0 (0.1) | $\sim$ | 10.1 (0.05) |
| Italy | 20 (1.1) | 397 (9.7) | 78 (1.2) | 369 (7.4) | 2 (0.3) | ~ ~ | 9.5 (0.06) |
| Lebanon | 8 (1.2) | 434 (21.2) | 84 (1.1) | 412 (5.2) | 8 (0.7) | 370 (9.9) | 8.5 (0.07) |
| International Avg. | 29 (0.6) | 482 (3.3) | 69 (0.5) | 439 (2.1) | 2 (0.1) | 390 (9.7) |  |

This TIMSS Advanced questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS Advanced 2015. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.
() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

A tilde ( $\sim$ ) indicates insufficient data to report achievement.


