Exhibit 4.1: Average Science Achievement and Scale Score Distributions


The TIMSS achievement scale was established in 1995 based on the combined achievement distribution of all countries that participated in TIMSS 1995. To provide a point of reference for country comparisons, the scale centerpoint of 500 was located at the mean of the combined achievement distribution. The units of the scale were chosen so that 100 scale score points corresponded to the standard deviation of the distribution.
$\Psi$ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds $15 \%$ but does not exceed $25 \%$.
See Appendix B. 7 for population coverage notes 1,2 , and 3 . See Appendix B. 10 for sampling guidelines and sampling participation notes $\dagger, \ddagger$, and $\equiv$.
() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

TIMSS \& PIRLS
SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019
Downloaded from http://timss2019.org/download

Read across the row for a country to compare performance with the countries listed along the top of the chart. If no statistically significant difference was found, no symbol is present. If the difference is significant $(p<0.05)$, a symbol indicates whether the estimated achievement of the country in the row is higher ( $\mathbf{\Delta}$ ) than that of the comparison country, or lower ( $\nabla$ ).

| Country | Average Scale Score |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \bar{\Phi} \\ & \stackrel{\widetilde{\omega}}{\underline{\omega}} \end{aligned}$ |  | $\begin{aligned} & \text { 츠N } \end{aligned}$ |  | $\begin{aligned} & \stackrel{\sigma}{0} \\ & \underset{\substack{0 \\ ~}}{\substack{0 \\ 0}} \end{aligned}$ |  |  | $\begin{aligned} & \frac{0}{2} \\ & \frac{2}{0} \end{aligned}$ |  |  | $\begin{aligned} & \text { 荷 } \\ & \text { N} \\ & \underset{\sim}{\mathcal{W}} \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \frac{\pi}{N} \\ & \frac{\pi}{N} \\ & \frac{\pi}{N} \end{aligned}$ |  |  |  | $\begin{aligned} & \text { 苟 } \\ & 0 \\ & 0 \\ & \hline \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Singapore | 608 (3.9) |  | $\triangle$ | 4 | - | $\triangle$ | $\triangle$ | $\triangle$ | - |  |  |  | - | - | - | - | - | - | $\Delta$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ |  | $\wedge$ | $\triangle$ | $\triangle$ | $\triangle$ | A | A | A | - | $\triangle$ |
| Chinese Taipei | 574 (1.9) | $\nabla$ |  |  | - | $\triangle$ | $\triangle$ | $\triangle$ | - |  |  |  |  | 4 | - | - | - | - | - | $\triangle$ | $\Delta$ | $\triangle$ | $\triangle$ |  | - | $\pm$ | $\triangle$ | $\triangle$ | - | $\Delta$ | $\pm$ | - | - |
| Japan | 570 (2.1) | $\nabla$ |  |  | 4 | - | - | $\triangle$ | A |  |  |  |  |  | - | - | - | - | - | - | - | - | - | - | - | - | - | $\triangle$ | - | - | $\triangle$ | - | - |
| Korea, Rep. of | 561 (2.1) | $\nabla$ | $\nabla$ | $\nabla$ |  | - | $\triangle$ | $\triangle$ | - |  |  |  |  | , | - | - | $\triangle$ | $\triangle$ | $\Delta$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ |  | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | - | A | - | $\triangle$ |
| Russian Federation | 543 (4.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | - |  |  |  |  | 4 | - | $\triangle$ | - | $\triangle$ | 4 | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | - | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | 4 | $\triangle$ | - | $\triangle$ |
| Finland | 543 (3.1) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  | - | - |  |  |  | A |  | - | - | - | - | - | - | - | - | - |  | - | - | - | - | - | - | - | - | - |
| Lithuania | 534 (3.0) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  | $\nabla$ |  |  |  |  |  |  | , | - | - | - | - | A | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | A | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | A | A | - | - |
| Hungary | 530 (2.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  | - | $\triangle$ | - | $\triangle$ | $\Delta$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ |  | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\Delta$ | $\triangle$ | - | - |
| Australia | 528 (3.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  | - | - | $\triangle$ | A | $\triangle$ | 4 | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ |  | - | $\triangle$ | $\triangle$ | $\triangle$ | - | 4 | $\triangle$ | - | - |
| Ireland | 523 (2.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  |  | - | - | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | 1 | - | $\triangle$ | $\triangle$ | $\triangle$ | $\Delta$ | $\Delta$ | - | - | $\Delta$ |
| United States | 522 (4.7) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  |  | A | $\triangle$ | 4 | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ |  | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | 4 | $\triangle$ | - | - |
| Sweden | 521 (3.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  | - | $\triangle$ | 4 | $\triangle$ | - | $\triangle$ | - |  | - | $\pm$ | $\triangle$ | $\triangle$ | - | - | - | - | $\triangle$ |
| Portugal | 519 (2.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  | A | - | - | - | - | - | $\triangle$ | , | - | $\pm$ | - | $\Delta$ | A | $\Delta$ | $\pm$ | - | - |
| England | 517 (4.8) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  |  | $\triangle$ | $\Delta$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ |  | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\Delta$ | $\triangle$ | - | - |
| Turkey | 515 (3.7) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  |  | $\triangle$ | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | A | - | $\triangle$ | $\triangle$ | $\triangle$ | - | A | $\triangle$ | - | $\triangle$ |
| Israel | 513 (4.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  |  | $\triangle$ | - | - | $\Delta$ | $\triangle$ | $\triangle$ | - | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | - | - |
| Hong Kong SAR | 504 (5.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ |  |  |  |  |  |  |  | $\Delta$ | $\triangle$ | $\triangle$ | A | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | A | $\Delta$ | - | $\Delta$ |
| Italy | 500 (2.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | - | $\triangle$ | $\triangle$ | $\triangle$ | - | - | $\triangle$ | $\triangle$ | - | - | - | - | $\Delta$ |
| New Zealand | 499 (3.5) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | $\triangle$ | - | $\triangle$ | - | - | $\triangle$ | $\triangle$ | $\triangle$ | A | A | A | A | $\triangle$ |
| Norway (9) | 495 (3.1) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  | $\triangle$ | $\triangle$ | - | - | $\triangle$ | $\triangle$ | $\triangle$ | 4 | $\Delta$ | $\triangle$ | - | $\triangle$ |
| France | 489 (2.7) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | - | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | - | $\triangle$ | - | 4 |
| Bahrain | 486 (1.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | - | - | $\triangle$ | $\triangle$ | $\triangle$ | A | $\Delta$ | A | - | - |
| Cyprus | 484 (1.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | - | $\triangle$ | $\triangle$ | $\triangle$ | 4 | 4 | $\triangle$ | - | $\triangle$ |
| Kazakhstan | 478 (3.1) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | $\triangle$ | $\Delta$ | $\triangle$ | A | A | - | $\triangle$ |
| Qatar | 475 (4.4) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  | $\triangle$ | - | A | A | A | - | $\triangle$ |
| United Arab Emirates | 473 (2.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\triangle$ | $\triangle$ | 4 | $\Delta$ | $\Delta$ | - | - |
| Romania | 470 (4.2) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  | - | A | A | - | - |
| Chile | 462 (2.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ |  |  |  |  |  | - | - | $\triangle$ |
| Malaysia | 460 (3.5) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ |  |  |  |  |  | A | - | $\triangle$ |
| Oman | 457 (2.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  | - | $\triangle$ |
| Jordan | 452 (4.7) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  |
| Iran, Islamic Rep. of | 449 (3.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |
| Georgia | 447 (3.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |
| Kuwait | 444 (5.7) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |
| Saudi Arabia | 431 (2.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |
| Morocco | 394 (2.7) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |
| Egypt | 389 (5.4) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |
| Lebanon | 377 (4.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |
| South Africa (9) | 370 (3.1) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |
| Benchmarking Participants |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Moscow City, Russian Fed. | 567 (2.9) | $\nabla$ | $\nabla$ |  |  | $\triangle$ | - | - | - |  |  |  | - |  | - | - | - | - | $\triangle$ | $\triangle$ | $\Delta$ | $\triangle$ | - | , | - | $\pm$ | - | $\triangle$ | - | - | - | - | - |
| Dubai, UAE | 548 (2.0) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  | $\triangle$ | - |  |  |  | - | 4 | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | 1 | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\Delta$ | $\Delta$ | - | - |
| Quebec, Canada | 537 (3.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  | - | - | - | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | 1 | - | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | - | - | - | $\triangle$ |
| Ontario, Canada | 522 (3.0) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |  |  |  | $\triangle$ | $\triangle$ | 4 | $\triangle$ | $\triangle$ | $\triangle$ | $\triangle$ | - | $\Delta$ | $\triangle$ | $\triangle$ | 4 | $\triangle$ | - | $\triangle$ | - | $\Delta$ |
| Western Cape, RSA (9) | 439 (5.1) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  |  |
| Gauteng, RSA (9) | 422 (3.9) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |  | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla \nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |
| Abu Dhabi, UAE | 420 (3.6) | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  | V | $\nabla$ | - | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |

(Continued)


| Moscow City, Russian Fed. | 567 (2.9) | - | - | - | - | - |  | А | A | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Dubai, UAE | 548 (2.0) | $\triangle$ | - | - | - | - | $\nabla$ |  | $\triangle$ | - | - | $\triangle$ | - |
| Quebec, Canada | 537 (3.6) | - | - | - | - | - | $\nabla$ | $\nabla$ |  | $\triangle$ | - | $\triangle$ | $\triangle$ |
| Ontario, Canada | 522 (3.0) | $\triangle$ | - | - | - | - | $\nabla$ | $\nabla$ | $\nabla$ |  | - | $\triangle$ | $\triangle$ |
| Western Cape, RSA (9) | 439 (5.1) |  | - | - | - | A | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  | - | $\triangle$ |
| Gauteng, RSA (9) | 422 (3.9) | $\nabla$ | - | - | - | - | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |
| Abu Dhabi, UAE | 420 (3.6) | $\nabla$ | A | - | - | A | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ | $\nabla$ |  |  |

A Average achievement significantly higher than comparison country
$\nabla$ Average achievement significantly lower than comparison country

