Exhibit 1.12: TIMSS 2015 Achievement Items by Cognitive Domain - Fourth Grade

| Number |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cognitive |  |  |  |  |  |  |
| of Trend |  |  |  |  |  |  |
| Items in |  |  |  |  |  |  |
| TIMSS |  |  |  |  |  |  |
| Domain | Percentage <br> of Trend <br> Score <br> Points | Number <br> of New <br> Items in <br> TIMSS <br> 2015 | Percentage <br> of New <br> Score <br> Points | Total <br> Items | Achieved <br> Percentage <br> of Score | Target <br> Percentage <br> of Score |
|  | 2015 |  | Points | Points |  |  |


| Knowing | 41 (41) | 39\% | 23 (24) | 32\% | 64 (65) | 36\% | 40\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Applying | 42 (45) | 42\% | 30 (35) | 46\% | 72 (80) | 44\% | 40\% |
| Reasoning | 19 (20) | 19\% | 14 (17) | 22\% | 33 (37) | 20\% | 20\% |
| Total | 102 (106) |  | 67 (76) |  | 169 (182) |  |  |
| Mathematics - Numeracy Items |  |  |  |  |  |  |  |
| Knowing |  |  | 55 (55) | 52\% | 55 (55) | 52\% | 50\% |
| Applying |  |  | 35 (36) | 34\% | 35 (36) | 34\% | 15\% |
| Reasoning |  |  | 12 (15) | 14\% | 12 (15) | 14\% | 35\% |
| Total |  |  | 102 (106) |  | 102 (106) |  |  |
| Science Items |  |  |  |  |  |  |  |
| Knowing | 41 (44) | 40\% | 31 (34) | 43\% | 72 (78) | 41\% | 40\% |
| Applying | 40 (43) | 39\% | 27 (28) | 35\% | 67 (71) | 38\% | 40\% |
| Reasoning | 20 (22) | 20\% | 17 (17) | 22\% | 37 (39) | 21\% | 20\% |
| Total | 101 (109) |  | 75 (79) |  | 176 (188) |  |  |

Score points are shown in parentheses.
Because percentages are rounded to the nearest whole number, some totals may appear inconsistent.
Counts of TIMSS Numeracy achievement items do not include the two fourth grade TIMSS 2015 mathematics blocks (see Chapter 4 of the TIMSS 2015 Assessment Frameworks).

