

Exhibit 5: Structural Characteristics of Fourth Grade Curricula

Reported by National Research Coordinators

| Country | Mathematics | | | | Science | | | |
|-----------------------|--------------------------------------|---|--------------------|--------------------|--------------------------------------|---|--------------------|--------------------|
| | National Curriculum | Grade to Grade Structure (Not Including Preprimary) | Year Introduced | Being Revised | National Curriculum | Grade to Grade Structure (Not Including Preprimary) | Year Introduced | Being Revised |
| Armenia | ● | Grades 1–4 | 2011 | ○ | ● | Grades 1–4 | 2013 | ○ |
| Australia | ● | Grades 1–2, 3–6 | 2011 | ● | ● | Grades 1–2, 3–6 | 2011 | ● |
| Bahrain | ● | Grades 1–3, 4–6 | 2008 | ● | ● | Grades 1–3, 4–6 | 2008 | ● |
| Belgium (Flemish) | Varies partly by educational network | Grades 1, 2, 3, 4, 5, 6 | 1997 | ○ | Varies partly by educational network | Grades 1, 2, 3, 4, 5, 6 | 1997 | ● |
| Bulgaria | ● | Grades 1–4 | 2003 | ○ | ● | Grades 1–4 | 2003 | ○ |
| Canada | Varies by province | Varies by province | Varies by province | Varies by province | Varies by province | Varies by province | Varies by province | Varies by province |
| Chile | ● | Grades 1–6 | 2012 | ● | ● | Grades 1–6 | 2012 | ● |
| Chinese Taipei | ● | Grades 1–2, 3–4, 5–6 | 2008 | ● | ● | Grades 1–2, 3–4, 5–6 | 2008 | ● |
| Croatia | ● | Grades 1–4, 5–8 | 2010 | ● | ● | Grades 1–4, 5–6 | 2010 | ● |
| Cyprus | ● | Grades 1–6 | 2014 | ● | ● | Grades 1–6 | 2011 | ● |
| Czech Republic | ● | Grades 1–3, 4–5 | 2007 | ● | ● | Grades 1–3, 4–5 | 2007 | ● |
| Denmark | ● | Grades 1–3, 4–6 | 2009 | ○ | ● | Grades 1–2, 3–4, 5–6 | 2009 | ○ |
| England | ● | Grades 2–5 | 2014 | ○ | ● | Grades 2–5 | 2014 | ○ |
| Finland | ● | Grades 1–2, 3–5 | 2004 | ● | ● | Grades 1–4, 5–6 | 2004 | ● |
| France | ● | Grades 1–2, 3–5 | 2008 | ● | ● | Grades 1–2, 3–5 | 2008 | ● |
| Georgia | ● | Grades 1–6 | 2006 | ● | ● | Grades 1–6 | 2006 | ● |
| Germany | Varies by state | Varies by state | Varies by state | n/a | Varies by state | Varies by state | Varies by state | n/a |
| Hong Kong SAR | ● | Grades 1–6 | 2002 | ○ | ● | Grades 1–6 | 2011 | ● |
| Hungary | ● | Grades 1–4, 5–6 | 2007 | ● | ● | Grades 1–4, 5–6 | 2007 | ● |
| Indonesia | ● | Grades 1–6 | 2006 | ● | ● | Grades 1–6 | 2006 | ● |
| Iran, Islamic Rep. of | ● | Grades 1–3, 4–6 | 2014 | ● | ● | Grades 1–3, 4–6 | 2005 | ● |
| Ireland | ● | Grades 1, 2, 3, 4, 5, 6 | 2001 | ● | ● | Grades 1–2, 3–4, 5–6 | 2003 | ○ |
| Italy | ● | Grades 1–5 | 2012 | ○ | ● | Grades 1–5 | 2012 | ○ |
| Japan | ● | Grades 1, 2, 3, 4, 5, 6 | 2009 | ○ | ● | Grades 1–2, 3, 4, 5, 6 | 2009 | ○ |
| Jordan | ● | Grades 1–10 | 2013 | ○ | ● | Grades 1–10 | 2013 | ○ |
| Kazakhstan | ● | Grades 1–4 | 2013 | ● | ● | Grades 1–4 | 2013 | ● |
| Korea, Rep. of | ● | Grades 1–2, 3–4, 5–6 | 2011 | ● | ● | Grades 1–2, 3–4, 5–6 | 2011 | ● |
| Kuwait | ● | Grades 1–5 | 2010 | ● | ● | Grades 1–5 | 2009 | ● |
| Lithuania | ● | Grades 1–2, 3–4 | 2008 | ○ | ● | Grades 1–2, 3–4 | 2008 | ○ |
| Morocco | ● | Grades 1–3 | 2002 | ● | ● | Grades 1–3 | 2002 | ● |
| Netherlands | ● | No compulsory grade structure (recommended: Grades 1–2, 3–4, 5–6) | 2010 | ○ | ● | No compulsory grade structure (recommended: Grades 1–2, 3–4, 5–6) | 2009 | ○ |
| New Zealand | ● | No grade to grade structure; curriculum is structured around 8 levels of learning | 2008 | ○ | ● | No grade to grade structure; curriculum is structured around 8 levels of learning | 2008 | ○ |
| Northern Ireland | ● | Grades 1–2, 3–4, 5–7 | 2007 | ○ | ● | Grades 1–2, 3–4, 5–7 | 2007 | ○ |
| Norway | ● | Grades 1–4, 5–7 | 2006 | ○ | ● | Grades 1–4, 5–7 | 2006 | ○ |
| Oman | ● | Grades 1–4 | 2001 | ○ | ● | Grades 1–4 | 2011 | ○ |
| Poland | ● | Grades 1–3, 4–6 | 2009 | ● | ● | Grades 1–3, 4–6 | 2009 | ● |
| Portugal | ● | Grades 1–4 | 2014 | ○ | ● | Grades 1–4 | 2006 | ○ |
| Qatar | ● | Grades 1–6 | 2004 | ● | ● | Grades 3–6 | 2004 | ● |
| Russian Federation | ● | Grades 1–4 | 2011 | ● | ● | Grades 1–4 | 2011 | ● |
| Saudi Arabia | ● | Grades 1–6 | 2008 | ● | ● | Grades 1–6 | 2008 | ● |

● Yes
○ No

A dash (-) indicates data not provided.

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Exhibit 5: Structural Characteristics of Fourth Grade Curricula (Continued)

| Country | Mathematics | | | | Science | | | |
|----------------------|---------------------|---|-----------------|--|---------------------|---|-----------------|--|
| | National Curriculum | Grade to Grade Structure (Not Including Preprimary) | Year Introduced | Being Revised | National Curriculum | Grade to Grade Structure (Not Including Preprimary) | Year Introduced | Being Revised |
| Serbia | ● | Grades 1–4 | 2006 | ○ | ● | Grades 1–2, 3–4 | 2006 | ○ |
| Singapore | ● | Grades 1–6 | 2007 | ● | ● | Grades 3–6 | 2008 | ● |
| Slovak Republic | ● | Grades 1–4 | 2008 | ● | ● | Grades 1–4 | 2008 | ● |
| Slovenia | ● | Grades 1–9 | 2011 | ○ | ● | Grades 1–3, 4–5, 6–7, 8–9 | 2011 | ○ |
| South Africa | ● | Grades 1–3, 4–6 | 2012 | ○ | ● | Grades 1–3, 4–6 | 2012 | ○ |
| Spain | ● | Grades 1–2, 3–4, 5, 6, 7, 8 | 2007 | ○ | ● | Grades 1–2, 3–4, 5, 6, 7, 8 | 2007 | ○ |
| Sweden | Varies by province | Grades 1–3, 4–6 | 2011 | ○ | ● | Grades 1–3, 4–6 | 2011 | ○ |
| Turkey | ● | Grades 1–4 | 2004 | ● | ● | Grades 1–3, 4–5 | 2004 | ● |
| United Arab Emirates | ● | Grades 1–5 | 2005 | ● | ● | Grades 1–5 | 2005 | ● |
| United States | Varies by state | Varies by state and district | Varies by state | Varies by state, but generally ongoing | Varies by state | Varies by state and district | Varies by state | Varies by state, but generally ongoing |

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Benchmarking Participants—Responses Pertain to Benchmarking Provinces/Emirates/States

| | | | | | | | | |
|-------------------------|---------------------|--|------|---|---------------------|--|------|---|
| Buenos Aires, Argentina | ● | – | 2004 | ○ | ● | Grades 1–7 | 2004 | ○ |
| Ontario, Canada | ● | Grades 1–8 | 2005 | ○ | ● | Grades 1–8 | 2007 | ○ |
| Quebec, Canada | ● | Grades 1–2, 3–4, 5–6 | 2001 | ○ | ● | Grades 1–2, 3–4, 5–6 | 2001 | ○ |
| Abu Dhabi, UAE | ● | Grades 1–5 | 2014 | ○ | ● | Grades 1–5 | 2014 | ○ |
| Dubai, UAE | ● | Grades 1–5 | 2005 | ● | ● | Grades 1–5 | 2005 | ● |
| Florida, US | Statewide standards | Varies by district (typically 1, 2, 3, 4, 5) | 2014 | ○ | Statewide standards | Varies by district (typically 1, 2, 3, 4, 5) | 2008 | ○ |

● Yes
○ No