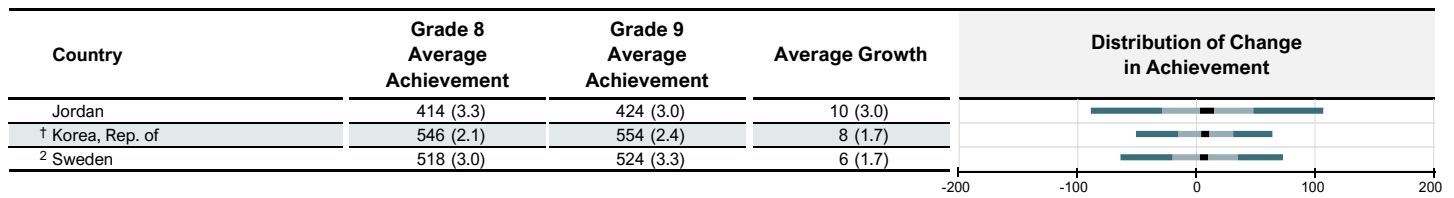
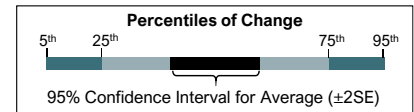


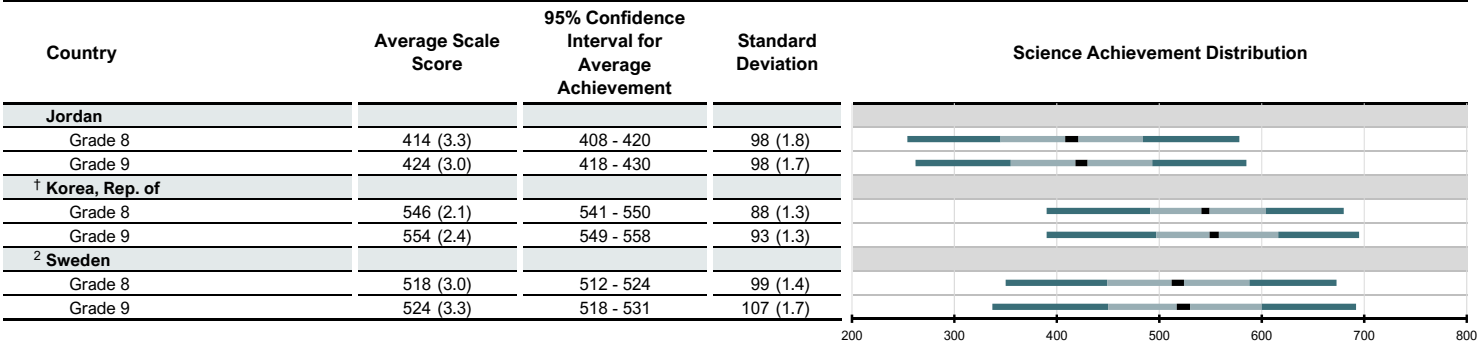
Exhibit 2.2.1a: Average Growth in Science Achievement and Change Distributions


() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.
 See Appendix A.2 for population coverage notes 1 and 2.
 See Appendix A.5 for sampling guidelines and sampling participation note [†].



SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2023 Longitudinal
 Downloaded from: <https://timss2023.org/longitudinal/results>

Exhibit 2.2.1b: Average Science Achievement and Scale Score Distributions



() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent. See Appendix A.2 for population coverage notes 1 and 2. See Appendix A.5 for sampling guidelines and sampling participation note †.

