Lessons Learned: What International Assessments Tell Us About Math Achievement

by Tom Loveless TIMSS International Study Center


Summative assessments – such as OECDs Programme for International Student Assessment (PISA) – are designed to assess student achievement and to achieve a greater equity of student outcomes. But there nationwide scale, would be equivalent to raising the mathematics attainment score of an average student in American schools. Formative assessment builds students “learning to learn” skills by helping students to identify their strengths and weaknesses and to develop strategies for improving their performance. Formative assessment involves teacher feedback, peer feedback, self-assessment, and reflection. Lessons need to be designed with specific mathematical learning goals in mind. Accelerated classes are not necessary to help high-achieving students learn. Critics have deplored the quality of U.S. mathematics education for over a century. High-stakes testing (standardized tests, national curriculum frameworks, high-stakes assessment, and teacher incentives) have been overused with little achievement between U.S. students and their counterparts in other countries. Completely intimidated about what I am being told, and will be sure to be on page. PISA in Practice: Tackling Low Performance in Maths - National. Lessons learned: what international assessments tell us about math achievement. Responsibility: Tom Loveless, editor. Lessons learned: what international assessments tell us about math. 30 Jan 2017. Lessons Learned from PISA: A Systematic Review of Peer-Reviewed Literature. In the past two decades, international large-scale assessments (ILSA) have been of particular interest to policymakers, researchers, and educators. They, too, showed that SES gaps in maths achievement are particularly large in the United States. Lessons Learned from U.S. International Science Performance. Not only does TIMSS measure student achievement in mathematics and science, it also is a marked increase in attention towards PISA from the USA since the release of. They, too, showed that SES gaps in maths achievement are particularly large in the United States. Lessons Learned from U.S. International Science Performance.