



### Other information collected by TIMSS Advanced

TIMSS Advanced is more than an assessment of student knowledge in advanced mathematics and physics. TIMSS Advanced also considers the context in which learning occurs. Students, teachers, and schools are asked about a variety of aspects of the environments in which content is taught, learned, practiced, and applied. In this way, TIMSS Advanced provides each country with a rich source of information on the factors influencing mathematics and science achievement.

### Participating countries in TIMSS Advanced 2015

France	Norway	Slovenia
Georgia	Portugal	Spain
Italy	Russian	Sweden
Lebanon	Federation	United States



NCES is authorized to conduct TIMSS under the Education Sciences Reform Act of 2002 (ESRA 2002), 20 U.S. Code, § 9543. Information collected will help the U.S. Department of Education's ongoing efforts to benchmark student achievement in the United States. Participation is voluntary. By law, data collected may be used only for statistical purposes and may not be disclosed or used in identifiable form for any other purpose except as required by law (20 U.S. Code, § 9573). The U.S. Office of Management and Budget has approved the data collection under OMB #1850-0695. Individual responses will be combined with those from other participants to produce summary statistics and reports.



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For questions about TIMSS 2015,  
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**ADVANCED**

## Trends in International Mathematics and Science Study (TIMSS)

**2015**



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## What is TIMSS Advanced?

The Trends in International Mathematics and Science Study Advanced (TIMSS Advanced) is an international assessment and research project designed to measure advanced mathematics and science achievement at the twelfth grade, as well as collect information about school and teacher practices related to instruction. TIMSS Advanced was administered in 1995 and 2008, with the United States participating previously in 1995. In 2015, TIMSS Advanced will involve students from 11 countries, including the United States.

TIMSS Advanced is sponsored by the International Association for the Evaluation of Educational Achievement (IEA) and managed in the United States by the National Center for Education Statistics (NCES), part of the U.S. Department of Education.

## Why is TIMSS Advanced important?

TIMSS Advanced provides a unique opportunity to compare the achievement of U.S. twelfth-grade students who have taken advanced mathematics or physics courses with that of their peers in countries around the world on advanced mathematics and physics content. TIMSS Advanced will provide educational policymakers with valuable information about how many students are excelling at highly specialized science, technology, engineering, and mathematics (STEM) content in a global context. The results will inform national discussions about education, preparedness for postsecondary education, and international competitiveness.

TIMSS Advanced provides valuable benchmark information on how U.S. students compare to students around the world,

allows educators and policymakers to examine other educational systems for practices that could have application to the United States, and contributes to ongoing discussions of ways to improve the quality of education of all students.

## What type of assessment is TIMSS Advanced?

The TIMSS Advanced mathematics and physics assessment is developed through an international consensus-building process involving input from U.S. and international experts in mathematics, science, and measurement. In a final step, the assessment is endorsed as suitable by all participating countries. The assessment contains a mix of questions; some require students to select appropriate responses while others require that students solve problems and provide written answers. Examples of released TIMSS items are available at <http://nces.ed.gov/timss/educators.asp>.

