



*Participating in IEA's TIMSS Advanced 2015 international study provides a rare opportunity for countries to weigh, on a global scale, the effectiveness of academic programs in mathematics and physics. This is particularly important today. Many people believe the future security and well-being of their societies are strongly linked to the quality and quantity of well-educated citizens, especially those with strong backgrounds and career interests in fields related to mathematics, science, engineering and technology.*

*TIMSS Advanced 2015 allows countries that participated in TIMSS Advanced 2008 to assess changes in performance that may have occurred in the intervening period. And, for countries taking part in such testing for the first time, it provides the opportunity to evaluate the achievement of top-performing mathematics and physics students in an international context.*

# TIMSS Advanced 2015

*IEA's international assessment helps decision makers evaluate the effectiveness of advanced mathematics, physics curriculum*

***TIMSS Advanced is a proven formula for countries to:***

- ▶ Assess two critical subjects — advanced mathematics and physics — at the final year of secondary school (the 12th grade in most countries)
- ▶ Examine a rich array of questionnaire-driven contextual background information for improving teaching and learning
- ▶ Gauge how well top-performing mathematics and science students measure up to their peers across the globe
- ▶ Determine whether advanced students are prepared for pursuing their studies at the tertiary (college) level
- ▶ Improve performance in leading-edge fields such as technology, science, medicine and engineering
- ▶ Weigh apportionment of precious educational resources, in terms of money and manpower, for courses in mathematics and science

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