## Beating the Odds: Academic Resilience Around the World

EDUCATION POLICY Center at American institues for Research - $\begin{aligned} \text { educationpolicy.air.org }\end{aligned}$



IN TIMSS 2011


300,000+
More than 300,000 8th grade students were assessed.


## HOW PREVALENT ARE ACADEMICALLY RESILIENT STUDENTS?

IEA studied the systems with more than 100 ARS. In general, it found that education systems with lower
percentages of disadvantaged students had larger percentages of ARS. Additionally, the education systems with
the largest percentages of ARS tend to be those with higher mean TIMSS scores overall.


* 2011 TMMSS Mathematics Average Score in Grade 8
${ }^{1}$ Disadvantaged students are defined as those in the "few resources" category of the Home Educational Resources (HER) index, which is a composite measure in the TIMSS 2011 International Database. On average, these students reported that they had 25 or fewer books in the home, they had neither their own room nor an internet connection, and neither parent had gone beyon
uppersecondary education. upper-secondary education.
${ }^{2}$ Academically resilient students (ARS) are defined as disadvantaged students who performed at or above the TIMSS 2011 Intermediate International Mathematics Benchmark (475). The description of this benchmark is provided on page 125 of the
TIMSS 2011 Mathematics Report at htpe//timssandiris sco TIMSS 2011 Mathematics Report at http://timssandpirls.bc.edu/timss2011/international-results-mathematics.html. Source: Erberber, E., Stephens, M., Mamedova, S., Ferguson, S., \& Kroeger, T. (2015, March). Socioeconomically disadvantaged
students who are academically successful: Examining academic resilience cross-nationally. IEA's Policy Brief Series, No. 5,


