

## **The Opportunity Equation: Transforming Mathematics and Science Education for Citizenship and the Global Economy** *Michele Cahill*

In its recent report *The Opportunity Equation: Transforming Mathematics and Science Education for Citizenship and the Global Economy*, the Carnegie-Institute for Advanced Study Commission on Mathematics and Science Education challenges the nation to mobilize for coordinated action so that all students—not just a select few, or those fortunate enough to attend certain schools—achieve much higher levels of math and science learning. Our nation’s capacity to innovate and the ability of young people to thrive over their lifetimes in a global economy and to participate fully in an increasingly complex democracy depend on a broad foundation of math and science learning. Opportunity Equation recognizes that reaching this level of achievement will require changes at the system, school, and classroom levels. It calls for coordinated action to establish common standards in math and science that are fewer, clearer, and higher, along with high-quality assessments; to improve math and science teaching—and our methods for recruiting, preparing, and ensuring professional learning for the nation’s teaching talent; and to redesign schools and education systems to enable teaching that will lead to higher order math and science learning by all.