

Making Sense of
SCIENCE

PREPARING STUDENTS FOR THE DEMANDS OF A MODERN SOCIETY

To participate in our modern society and compete in the global arena, it is imperative to understand science-based issues, apply science concepts and processes, and utilize problem-solving and scientific-reasoning skills. Yet when compared worldwide, American students ranked 25th in science on the Programme for International Student Assessment (PISA) test for 15-year-olds, trailing students in China, Germany, and the Portugal. To thrive in the 21st century economy, it is critical we transform the way we teach science and find solutions that offer a solid return on investment.

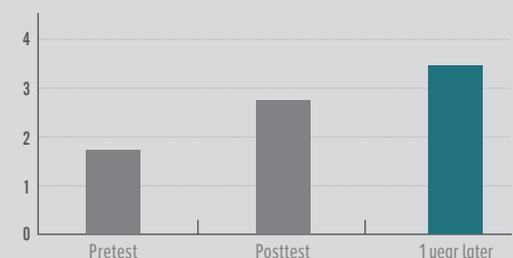
TRANSFORMING SCIENCE TEACHING

The key to students' success in science is well-prepared teachers. Making Sense of SCIENCE (MSS) has been recognized nationally for its expertise in teacher professional learning, and has partnered with numerous universities and institutions to provide professional learning courses that deepen teachers' content knowledge, strengthen their core literacy practices, and empower them with the necessary skills to engage and inspire *all* students.

DEMONSTRATING SUCCESS

Rigorous, large-scale research studies and national field testing have gone hand-in-hand with the evolution of this approach. Study findings offer compelling evidence that Making Sense of SCIENCE courses have a positive impact on both teachers and students. Teachers demonstrate gains immediately after taking an MSS course, and their knowledge continues to increase over time. Results show that all students benefit, with non-native English speakers and low-performing students making the biggest gains.

Based on a 4-point rubric rating scale, teachers who participate in MSS show **continued knowledge gain a full year after participation.**



All students benefit when their teachers participate in MSS, but **those with the most to gain, show the greatest growth.**

