

Science

Amplify Science is a K–8 curriculum that blends hands–on investigations, literacy–rich activities, and interactive digital tools to empower students to think, read, write, and argue like real scientists and engineers.

Each unit of Amplify Science engages students in a relevant, real–world problem in which they investigate scientific phenomena, engage in collaboration and discussion, and develop models or explanations in order to arrive at solutions.

★ Patterns of Earth and Sky

Taking on the role of astronomers, students help a team of archaeologists figure out what the missing piece of a recently discovered artifact might have depicted. As they learn about the sun and other stars and the movement of Earth, students can explain what is shown on the artifact and what might be on the missing piece.

★ Modeling Matter

In the role of food scientists, students are introduced to the ideas that all matter is made of particles too small to see and that each different substance is made of particles (molecules) that are unique.

★ The Earth System

As water resource engineers, students learn about the Earth system so they can help figure out what is causing a water shortage on one part of an island. They also design ways to alleviate the effects of water shortages, including freshwater collection systems and proposals for using chemical reactions to treat wastewater.

★ Ecosystem Restoration

Working as ecologists, students figure out why the organisms in one part of a rain forest ecosystem aren't growing and thriving. As they solve this problem, students learn more generally how organisms in an ecosystem get the matter and energy they need to survive.

