



STEM in Action

Coding & Mineral Collection Challenge

Students explore the effects of erosion, weathering, and landslides on the earth's surface. Their challenge is to code a robot to collect minerals that have surfaced in areas unsafe for humans to go. By introducing a real-world problem, students are emotionally invested in the subject. Throughout the unit students practice thinking programmatically. They learn how to create their own code as well as learn how to debug existing code. At the same time they are learning about erosion and identifying minerals. This unit easily fits into your schedule! Up to 60 minutes a day for 5-8 day. STEM in Action® modules are the easy-to-implement PreK-5 solution for integrating science, math, literacy, and engineering skills into real-world problems. These modules focus on the Engineering Design Practice which is a critical component of NGSS, state standards, and national initiatives. The cost for this trunk is \$25 for a week based on availability. All supplies needed for the lessons are provided in the trunk.