

# 8TH GRADE SCIENCE

How can we use science and engineering practices to explore motion, waves, evolution, and natural selection?

## THE 5 UNITS

### Unit 0: Groupwork

**How do we work productively in groups?** Groupwork is an instructional strategy that helps promote equitable classrooms, provide opportunities for student interactions, and increase science discussions to improve student learning.



Groupwork

### Unit 1: Motion in the Universe

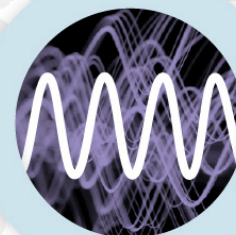
**How can we change the motion of an asteroid heading toward earth?** In this unit, students consider how all the objects in the solar system move. They also consider how scientists could prevent an asteroid or another near-Earth object from colliding with Earth.



Motion in the Universe

### Unit 2: Waves

**How can we use waves to communicate during a power outage?** In this unit, students investigate how waves represent repeating patterns of information that can be carried from one location to another.



Waves

### Unit 3: Life on Earth

**What evidence supports the claim that Earth is heading for a sixth mass extinction?** In the unit, students work together to create a presentation explaining the evidence that supports the claim that Earth is heading for a sixth mass extinction and why people should care about the threat of a potential mass extinction.



Life on Earth

### Unit 4: Natural Selection

**How could we use our understanding of genetics to help endangered species survive in a changing environment?** In this unit, students study natural selection to determine how to save an endangered species by taking advantage of genetic variation.



Natural Selection