

# FOURTH GRADE

## At a Glance

### LESSONS:

**“Calculating School Trip Emissions”:** In this lesson, students will calculate the pounds of carbon dioxide released into the atmosphere from their commute to school. This exercise introduces students to the concept of passenger miles per gallon and underscores the important role that walking, bicycling, carpooling and public transportation plays in curbing air pollution and climate change.

**“Life Before and After Four Wheels”:** Students will learn about the vastly different modes of transportation that have existed throughout history.

**“Travel Diary”:** Students keep track of their transportation activities during two weeks and try to substitute walking and bicycling for trips that they have made by car.

**“Helmet Safety—Ride Smart”:** Students will learn about the importance of wearing a bicycle helmet. They will observe how a helmet works and learn the proper way to fit a helmet; hear the story of a boy who was seriously injured in a bike crash; watch the “egg drop” demonstration; and share their own experiences.

**“Jeopardy Time”:** Students will learn basic pedestrian and bicycle safety rules, and reasons for walking and bicycling in this Jeopardy-style game show.

### STUDENT WORKSHEETS:

- Bike and Helmet Safety
- On the Move

### STANDARDS COVERED:

#### Language Arts

2.2: Make informational presentations.

- Frame a key questions.
- Include facts and details that help listeners to focus.

2.1: Writing Applications (Genres and their Characteristics)

- Relate ideas, observations, or recollections of an event or experience.
- Provide a context to enable the reader to imagine the world of the event or experience.

### RELEVANT HOUGHTON MIFFLIN UNITS:

- Risks and Consequences
- Money

### RELEVANT OPEN COURT UNITS:

- Nature: Friend or Foe
- Heroes
- Problem Solving

