

# **EARTH'S DYNAMIC GEOSPHERE**

## **CHAPTER 3**

# **EARTHQUAKES... AND YOUR COMMUNITY**

### **Chapter Overview**

The **Chapter Challenge** for Earthquakes and Your Community is for students to develop an earthquake risk assessment for their area and present these plans to the public as a public service message (video or audio) and in a brochure. Their presentations include concise descriptions of the basic phenomena associated with earthquakes to better prepare the public for understanding the risk assessment. Through the course of the chapter, students will investigate the cause, distribution, measurement, description, and effects of earthquakes, as well as measures used to reduce the effects of earthquakes. By the end of the chapter, students should have uncovered the relationship between earthquakes and all communities on Earth.

### **Chapter Goals for Students**

- Understand how and why earthquakes are part of Earth systems.
- Participate in scientific inquiry and construct logical conclusions based on evidence.
- Recognize the hazards of earthquake activity.
- Appreciate the value of Earth science information in saving lives and preventing or reducing damage to communities.

### **Chapter Timeline**

Estimated time for completion of this chapter is three weeks. You will need to adjust this guide to suit your school schedule and standards. Flexibility can be built into your schedule by manipulating homework and class activities to meet your needs.