**Earthquakes and Earth’s Interior**

**Description:**

**Textbook Chapters:**

8. Earthquakes and Earth’s Interior

**Section 1: What is an Earthquake?**

**Section 2: Measuring Earthquakes**

**Section 3: Earthquake Hazards**

**Section 4: Earth’s Layered Structure**

**State Standards:**

E.S.1.29 Recognize and explain that in geologic change, the present arises from the materials of the past in ways that can be explained according to the same physical and chemical laws.

E.S. 1.26 Differentiate among the processes of weathering, erosion, transportation of materials, deposition, and soil formation.

**Objectives:**

8.1 What Is an Earthquake? pp. 218–221

8.1 Compare and contrast the epicenter and focus of an earthquake.

8.2 Identify the cause of earthquakes.

8.3 Compare and contrast aftershocks and foreshocks.

8.2 Measuring Earthquakes, pp. 222–227

8.4 Identify the three types of seismic waves.

8.5 Describe how seismic waves are recorded.

8.6 Describe the different ways earthquakes are measured.

8.7 Explain how to locate the epicenter of an earthquake.

8.3 Earthquake Hazards, pp. 228–232

8.8 Identify the major hazards associated with earthquakes.

8.9 Describe how earthquake damage can be reduced.

8.4 Earth’s Layered Structure, pp. 233–237

8.10 List the layers of Earth based on composition and physical properties.

8.11 Describe the composition of each layer of Earth.

8.12 Explain how scientists determined Earth’s structure and composition.

**Learning Activities:**

1. Discussion/Lecture on Earthquakes and Plate Tectonics

2. Discussion/Lecture on Recording Earthquakes

3. Discussion/Lecture on Earthquake Damages

4. Chapter 8 Review

5. Where do you Feel Safer? Web Quest

6. Faults and Folds Project/Presentation