

Unit 7 Section 2 Study Guide

Directions: Answer the following questions.

Reviewing Objectives Part 1:

1. Describe how the sizes of earthquakes and volcanoes are measured or characterized. Pages: 303-304, 318-330
2. Explain how the chemical composition of magmas relates to plate tectonics and affects the geometry, structure, and explosivity of volcanoes. Pages: 319-330

Reviewing Major Concepts Part 2: *Chapter 12 section 2, Chapter 13 section 1,2*

1. Describe the scales that scientists use to measure the magnitude of an earthquake.
2. Explain the difference between magnitude and intensity of an earthquake.
3. Describe three conditions that affect whether magma forms.
4. Identifying Relationships Describe how the presence of ocean water in crustal rocks might affect the formation of magma.
5. Summarize the difference between mafic and felsic magma.
6. Explain how the composition of magma affects the force of volcanic eruptions.
7. Compare three major types of lava flows.
8. Define pyroclastic material, and list three examples.
9. Identify the three main types of volcanic cones.
10. Describe how calderas form.
11. List three events that may precede a volcanic eruption.