

**Chapter 10 Volcanoes and Other Igneous Activity****Section 10.1 The Nature of Volcanic Eruptions**


*This section discusses volcanic eruptions, types of volcanoes, and other volcanic landforms.*

**Reading Strategy**


**Previewing** Before you read the section, rewrite the green topic headings as questions. As you read, write the answers to the questions. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

The Nature of Volcanic Eruptions	
What factors affect an eruption?	a.

**Factors Affecting Eruptions**


1.  What are three factors that determine how violently or quietly a volcano erupts? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Circle the letter of the term that describes lava's resistance to flow.
  - a. temperature
  - b. eruption
  - c. viscosity
  - d. basaltic

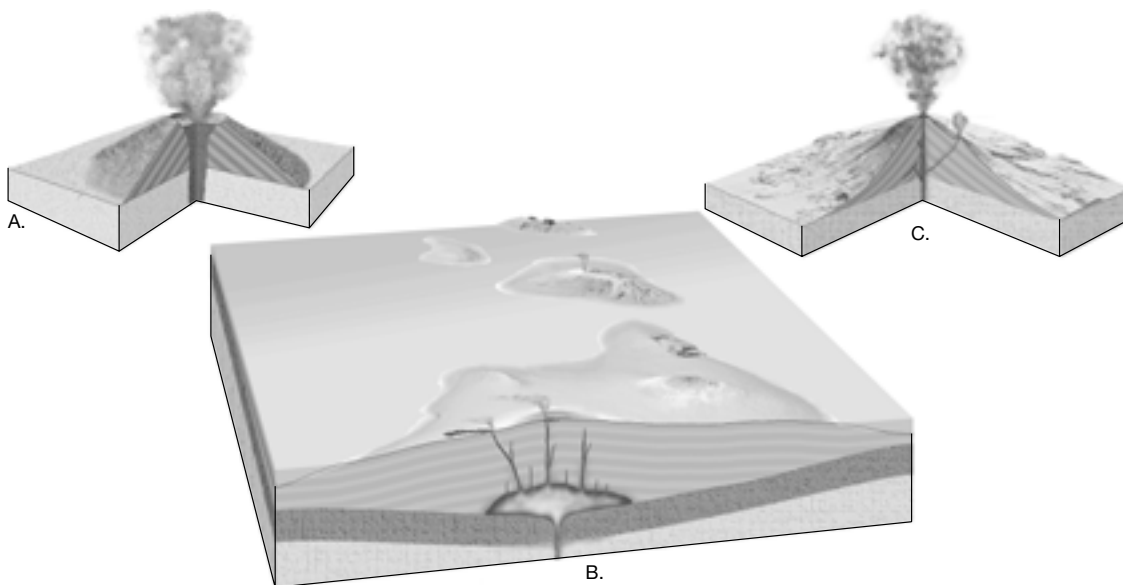
**Volcanic Material**

3. Is the following sentence true or false? One thing all volcanic eruptions have in common is that they emit large amounts of gas.  
\_\_\_\_\_
4.  During a volcanic eruption, particles called \_\_\_\_\_, ranging from very fine dust to pieces weighing several tons, are ejected.

## Chapter 10 Volcanoes and Other Igneous Activity

### Types of Volcanoes

5.  Select the appropriate letter in the figure that identifies each of the following types of volcanoes.





\_\_\_\_\_ shield volcano      \_\_\_\_\_ cinder cone      \_\_\_\_\_ composite cone

6. The steep-walled depression known as a(n) \_\_\_\_\_ is located at the summit of many volcanoes.
7. Circle the letter of the type of volcano that is the product of gas-rich basaltic magma mostly in the form of loose pyroclastic material.
- a. cinder cone      b. shield volcano  
c. stratovolcano      d. composite cone
8. Is the following sentence true or false? Cinder cones are the most potentially dangerous volcanoes because they generate the most explosive eruptions. \_\_\_\_\_

### Other Volcanic Landforms

Match each description with its volcanic landform or feature.

Description	Volcanic Landform or Feature
_____ 9.  conduit that feeds magma to a volcano's surface	a. caldera b. pipe c. lava plateau d. volcanic neck
_____ 10. wide area that forms when low-viscosity basaltic lava flows from fissures	
_____ 11. rock conduit that remains when the surrounding cone has been eroded	
_____ 12.  depression formed by the collapse of the top of a volcano	