

**Chapter 10 Volcanoes and Other Igneous Activity**

**Section 10.2 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**

- ➡ What are three factors that determine how violently or quietly a volcano erupts? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_
- Circle the letter of the term that describes lava’s resistance to flow.

  - a. temperature
  - b. eruption
  - c. viscosity
  - d. basaltic

**Volcanic Material**

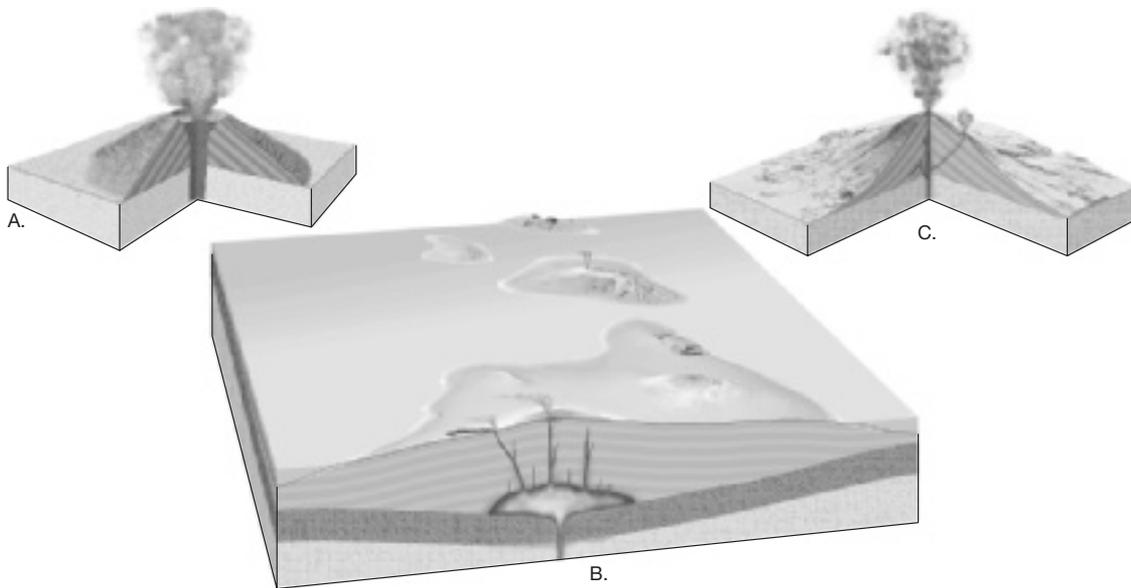
- Is the following sentence true or false? One thing all volcanic eruptions have in common is that they emit large amounts of gas.

\_\_\_\_\_
- ➡ During a volcanic eruption, particles called \_\_\_\_\_, ranging from very fine dust to pieces weighing several tons, are ejected.

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**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

**Other Volcanic Landforms**

Match each description with its volcanic landform or feature.

Description	Volcanic Landform or Feature
_____ 8. wide area that forms when low-viscosity basaltic lava flows from fissures	a. caldera b. lava plateau c. volcanic neck
_____ 9. rock conduit that remains when the surrounding cone has been eroded	
_____ 10. depression formed by the collapse of the top of a volcano	

**Volcanic Hazards**

11. Is the following sentence true or false? Cinder cones are the most dangerous volcanoes. \_\_\_\_\_