

Chapter 22 Earth's Interior

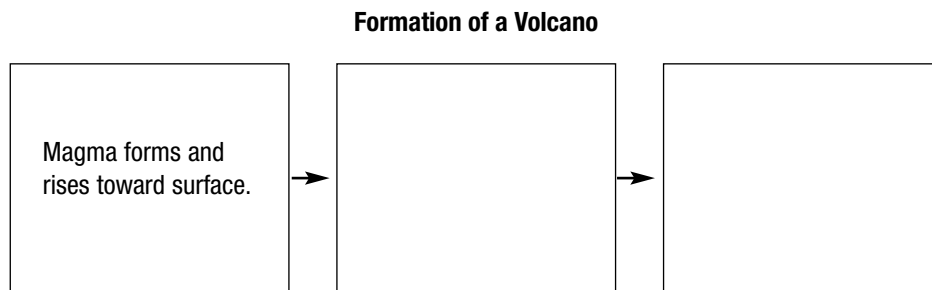
Section 22.6 Volcanoes

(pages 690–696)

This section describes volcanoes, how they form, and the different ways they erupt. It also describes the different types of volcanoes and other features created by magma.

Reading Strategy (page 690)

Sequencing As you read, complete the flowchart to show how a volcano forms. 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.



1. A mountain that forms when magma reaches the surface is called a(n) _____.

Formation of a Volcano (page 691)

2. Is the following sentence true or false? Liquid magma is formed when small amounts of mantle rock melt. _____
3. Describe how a volcano forms. _____

4. Describe how a volcano erupts. _____

5. Magma collects in a pocket called the _____ before a volcanic eruption.

Match each feature of a volcano to its correct description.

Feature	Description
_____ 6. pipe	a. A narrow, vertical channel where magma rises to the surface
_____ 7. vent	b. An opening in the ground where magma escapes to the surface
_____ 8. crater	c. A huge depression created if the shell of the magma chamber collapses
_____ 9. magma chamber	d. A bowl-shaped pit at the top of a volcano
_____ 10. caldera	e. A pocket where the magma collects

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Quiet and Explosive Eruptions (page 692)

11. Is the following sentence true or false? How easily magma flows depends on its viscosity. _____
12. List three factors that determine the viscosity of magma.
 - a. _____
 - b. _____
 - c. _____
13. Is the following sentence true or false? Magma with higher temperatures has higher viscosity. _____
14. Hot, fast-moving lava is called _____ and cooler, slow-moving lava is called _____.

Location and Types of Volcanoes (page 693)

15. Where do most volcanoes occur? _____

16. Is the following sentence true or false? A region where hot rock extends from deep within the core to the surface is called a hot spot. _____
17. Is the following sentence true or false? A composite volcano is produced by a quiet eruption of low-viscosity lava. _____
18. An eruption of ash and cinders will produce a volcano called a(n) _____.
19. Is the following sentence true or false? A composite volcano is formed from an explosive eruption of lava and ash.

Other Igneous Features (page 696)

20. Circle the letters of the igneous features that are formed by magma.
 - a. dikes
 - b. sills
 - c. volcanic necks
 - d. batholiths
21. The largest type of intrusive igneous rock mass is called a(n) _____.
22. Is the following sentence true or false? A crack that has been filled in by magma and hardens parallel to existing rock layers is called a dike. _____