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Chapter 10 Volcanoes and Other Igneous Activity

## **Section 10.2 Intrusive Igneous Activity**

*This section explains how to classify intrusive igneous features and describes where magma comes from.* 

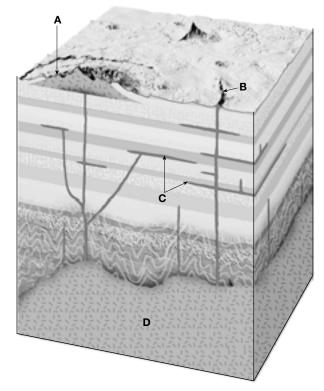
## **Reading Strategy**

**Comparing and Contrasting** After you read, compare the types of plutons by completing the table. 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.

Types of Plutons	Description
Sill	a.
Laccolith	b.
Dike	С.
Batholith	d.

## Plutons

- 1. Select the appropriate letter in the diagram that identifies each of the following igneous intrusive features.
  - \_\_\_\_\_ sill
  - \_\_\_\_\_ batholith
  - \_\_\_\_\_ laccolith
  - \_\_\_\_\_ dike
- 2. Is the following sentence true or false? Plutons can be studied on Earth's surface as they form.



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## Chapter 10 Volcanoes and Other Igneous Activity

**3.** The What three characteristics are used to classify intrusive igneous bodies?

Match each way plutons formed with the pluton type.

How Formed		Pluton	
<b>4.</b> Swhen magma from magma chamber investing to the surrounding room of the s	ades fractures	a. sill b. laccolith c. batholith	
5. Solution when a large intra- body of greater than accumulates and become	100 km <sup>2</sup>	d. dike	
6. Solution when magma is in between sedimentary to Earth's surface and lens-shaped mass	layers close		
7. Solution when magma is in sedimentary bedding to Earth's surface			
Origin of Magma			

- **8.** S Is the following sentence true or false? Magma forms when solid rock in the crust and upper mantle partially melts.
- **9.** Circle the letter of one way magma is generated.
  - a. The confining pressure of rocks is increased.
  - b. The water content of rocks is reduced.
  - c. The temperature of rocks is lowered below their melting points.
  - d. The temperature of rocks is raised above their melting points.
- **10.** The rate at which temperature changes with depth below Earth's surface is called the \_\_\_\_\_\_.
- 11. How is decompression melting of rocks triggered? \_\_\_\_\_
- 12. -
- \_\_\_\_\_ rock buried at depth has a much lower
- melting temperature than does \_\_\_\_\_\_ rock of the same composition and under the same pressure.

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