Name _

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.

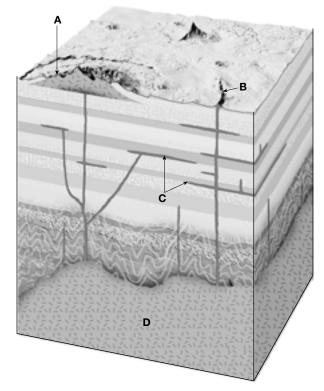
Reading Strategy

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.



Class

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

Match each way plutons formed with the pluton type.

How Formed		Pluton	
4. 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 ²	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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