

Chapter 3 Rocks

# Section 3.2 Igneous Rocks

*This section discusses the characteristics of igneous rocks.*

## Reading Strategy

**Outlining** Complete the outline as you read. Include points about how each of these rocks form, some of the characteristics of each rock type, and some examples of each. (4PTS)

I. Igneous Rocks
A. Intrusive Rocks
1. DEFINE- _____
_____
2. EXAMPLE- _____
_____
B. Extrusive Rocks
1. DEFINE- _____
_____
2. EXAMPLE- _____
_____

## Formation of Igneous Rocks

*Match each description to its term.*

	<b>Description</b>	<b>Term</b>
_____	1. the meaning of the Latin word <i>ignis</i>	a. magma
_____	2. rocks that form when magma hardens beneath Earth's surface	b. granite
_____	3. rocks that form when lava hardens	c. intrusive igneous
_____	4. melted material beneath Earth's surface	d. lava
_____	5. melted material at Earth's surface	e. rhyolite
_____	6. an intrusive igneous rock that forms when magma cools slowly beneath Earth's surface	f. fire
_____	7. an extrusive igneous rock that forms when lava cools quickly at Earth's surface	g. extrusive igneous

**Chapter 3 Rocks**

8. Complete the table below. (4PTS)

Compare and Contrast Igneous Rocks		
	Granite	Rhyolite
Compare		
Contrast		

**Classification of Igneous Rocks**

9. Two characteristics used to classify igneous rocks are \_\_\_\_\_ and \_\_\_\_\_.
10. Slow cooling creates a texture that has \_\_\_\_\_ crystals.
11. Fast cooling creates a texture that has \_\_\_\_\_ crystals.
12. What size crystal is considered “fine grained?” \_\_\_\_\_
13. If a rock hardens so fast that no crystals can form, what is the name of that texture? \_\_\_\_\_
14. If a rock has large crystals surrounded by smaller crystals that hardened quicker, that texture is called \_\_\_\_\_.
15. A light silicate rock is made of what 3 elements? \_\_\_\_\_
16. A dark silicate rock is made of what 2 elements? \_\_\_\_\_
17. \_\_\_\_\_ composition rocks are light in color (10-25% dark silicates)
18. \_\_\_\_\_ composition rocks are dark in color (45% or more dark silicates)
19. Andesitic composition rocks are somewhere in between ( \_\_\_\_\_ % dark silicates)