

Skills Worksheet

Directed Reading A

Section: Igneous Rock

- _____ 1. What kind of rock forms when hot, liquid rock, or magma, cools and solidifies?
- a. sedimentary c. metamorphic
b. igneous d. mineral
- _____ 2. Which kind of rock has a name that comes from a Latin word that means "fire"?
- a. igneous c. metasedimentary
b. metamorphic d. sedimentary
3. What two factors affect the type of igneous rock that is formed?

ORIGINS OF IGNEOUS ROCK

4. Igneous rock begins as _____.
5. What are the three ways that magma can form?

6. What three factors affect the formation of magma?

7. How does the composition of the magma affect the temperature at which it solidifies?

COMPOSITION AND TEXTURE OF IGNEOUS ROCK

8. Light-colored igneous rocks are less _____ than dark-colored igneous rocks are.

Directed Reading A *continued*

9. Light-colored igneous rocks that are rich in aluminum, potassium, silicon, and sodium are called _____ rocks.
10. Dark-colored igneous rocks that are rich in calcium, iron, and magnesium are called _____ rocks.
11. The longer it takes for a rock to cool and solidify, the more time _____ have to grow, giving the rock a(n) _____ grain.
12. The more quickly an igneous rock cools and solidifies, the _____ the grain.

IGNEOUS ROCK FORMATIONS

Match the correct description with the correct term. Write the letter in the space provided.

- | | |
|---|----------------------|
| _____ 13. a large, irregular-shaped intrusive body | a. pluton |
| _____ 14. the largest intrusive bodies | b. dikes |
| _____ 15. sheetlike intrusions that lie parallel to previous rock units | c. batholiths |
| _____ 16. sheetlike intrusions that cut across previous rock units | d. sills |
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17. Magma _____, or pushes, into surrounding rock below the Earth's surface to create such formations as batholiths and sills.
 18. Intrusive igneous rock usually has a(n) _____ texture.
 19. Igneous rock that forms from lava, or magma that erupts onto the Earth's surface, is called _____.
 20. Lava can either erupt or flow from long cracks in the Earth's crust called _____.
 21. When lava flows from fissures on the ocean floor at places where tension is causing the ocean floor to be pulled apart, new _____ is formed.
 22. When a large amount of lava flows out of fissures onto land, the lava can cover a large area and form a plain called a(n) _____.