

Volcanoes ▪ *Review and Reinforce*

Properties of Magma

Understanding Main Ideas

Classify each of the following properties by writing Physical or Chemical in the blank beside it.

- | | |
|--------------------------|--|
| _____ 1. Density | _____ 4. Ability to react
with other substances |
| _____ 2. Boiling Point | _____ 5. Hardness |
| _____ 3. Ability to burn | _____ 6. Magnetic quality |

Answer the following questions.

7. Why is it helpful to know the physical and chemical properties of a substance? _____

8. Explain why molasses has a higher viscosity than water. _____

9. What is the difference in silica content and viscosity between light-colored and dark-colored magma? _____

10. How does temperature affect viscosity of magma?

Building Vocabulary

Fill in the blank to complete each statement.

11. A substance made of two or more elements that have been chemically combined is called a(n) _____.
12. A(n) _____ is a substance that cannot be broken down into other substances.
13. Fast-moving, hot lava that has low viscosity is called _____.
14. Lava that is cooler and slower-moving is called _____.

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Volcanic Eruptions

Understanding Main Ideas

Answer the following questions on a separate sheet of paper.

1. Why does magma in the mantle rise through the crust above it?
2. As magma rises toward the surface, what happens to the gases in it? Why?
3. Contrast the viscosity of magma in quiet and explosive eruptions.
4. How does an explosive eruption produce a pyroclastic flow?
5. Identify three hazards of volcanic eruptions.
6. Describe the stages of volcanic activity.

Building Vocabulary

Label the figure below with the names of a volcano's parts.

