

## Part 1.

1. What is magma?
2. Where is magma found?
3. Magma reaches the Earth's surface through structures called \_\_\_\_\_.
4. \_\_\_\_\_ determines the rate at which magma moves.
5. Describe the differences between the two types of magma.

## Part 2.

6. What dissolved gases are given off as the magma erupts?
7. What causes explosive volcanic eruptions? Why?

## Part 3.

8. Once magma reaches the surface, it is known as \_\_\_\_\_.
9. What is the difference between *mafic* and *felsic* lava?

10. Name the two lava types with Hawaiian names. Which type is common to Hawaii?

**Part 4.**

11. Lava fragments are also known as \_\_\_\_\_.

12. Name each type from smallest to largest. Be sure to indicate the size of each one.

13. Describe the tephra which destroyed St. Pierre.

**Part 5.**

14. Describe a rift eruption.

15. Name three locations where rift eruptions occur.

16. Draw a diagram of a rift eruption.

**Part 6.**

17. Draw a diagram of a subduction boundary eruption.

18. What is the closest mountain range formed by subduction boundary volcanoes?

**Part 7.**

19. Describe how hot spots differ from rift or subduction volcanoes.

20. What is the most famous hot spot in the world?