

## Instructions

Read the passage below and answer the questions that follow.

A volcano is a landform that occurs when magma from the Earth's interior rises to the surface, resulting in eruptions of molten rock, ash, and gas. Volcanoes can be found on land and under the ocean. Some volcanoes are dormant, meaning they are no longer active, while others are active and can erupt at any time. The study of volcanoes is called volcanology. Volcanoes play an important role in shaping our Earth. They create new land, like the Hawaiian Islands, and can affect the climate by releasing gases into the atmosphere. However, volcanoes can also be dangerous. Eruptions can destroy homes, forests, and crops, and volcanic ash can travel long distances, affecting the environment and human health. Scientists monitor volcanoes to predict eruptions. They use tools like seismometers to detect earthquakes, which often occur before an eruption, and measure gas emissions to track changes in volcanic activity. Early warnings help people evacuate and stay safe during an eruption.

## Questions

1. What is a volcano?

2. True or False: All volcanoes are on land. TRUE ☐ | FALSE ☐

3. What do scientists use to detect earthquakes near volcanoes?

4. Write two ways volcanoes help shape the Earth.

5. What can happen to people and the environment during a volcanic eruption?

6. Draw a simple picture of a volcano and label its key parts (e.g., crater, magma chamber). Use the space below!