

## Volcano Notes

**Volcano** - A mountain that forms \_\_\_\_\_ erupt and build up.

**Magma** - Is \_\_\_\_\_ than the rock around it so it is very slowly forced upward toward Earth's surface. Magma is molten rock \_\_\_\_\_.

**Lava** - A molten rock \_\_\_\_\_.

**Vent** - An \_\_\_\_\_ through and reaches the Earth's surface.

**Crater** - The opening at the \_\_\_\_\_.

### Where do volcanoes occur?

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**Divergent Boundary** - Boundaries where plates \_\_\_\_\_ forming long, deep cracks called \_\_\_\_\_. Magma flows from rifts as lava, and builds up the seafloor. Sometimes the volcanoes and rift eruptions rise above sea level to form \_\_\_\_\_.

Example: \_\_\_\_\_

**Convergent Boundary** - Where plates \_\_\_\_\_. Magma that is created in the \_\_\_\_\_ is forced upward to the surface, forming volcanoes.

Example: \_\_\_\_\_, and volcanoes in the Cascades

**Hot Spot** - Areas in the mantle \_\_\_\_\_ than other areas. Magma has melted through the crust to form several volcanoes. Those that rise above the water form the \_\_\_\_\_.

**Pacific Ring of Fire** - This is an area around \_\_\_\_\_ where many \_\_\_\_\_ are found. It is also the scene of much \_\_\_\_\_. The volcanoes are typically found where \_\_\_\_\_ is taking place.

**Geothermal Energy** - Can be used to generate \_\_\_\_\_. The heat from the magma can be used to heat water and produce \_\_\_\_\_. The steam is pressurized and then spins \_\_\_\_\_ to make electricity. Hawaii hopes to generate \_\_\_\_\_ by using geothermal energy. This would reduce pollution and reduce the danger of oil spills

- **Active Volcano**- A volcano that is \_\_\_\_\_, or has erupted during recorded history
- **Dormant Volcano**- an active volcano that is in repose (quiescence) but is expected to \_\_\_\_\_.
- **Extinct Volcano**- A volcano that is not \_\_\_\_\_ again.

## **Types of eruptions**

- \_\_\_\_\_ - large amounts of water, trapped gases and granite which contains more silica.  
Example: \_\_\_\_\_
- \_\_\_\_\_ - A hot , fast moving and high density mixture of fine and course particles and gas formed during explosive eruptions or from the collapse of a lava dome.
- \_\_\_\_\_ - contain less water, trapped gases and basaltic lava which is more fluid.  
Example: Kilauea- \_\_\_\_\_

## **Types of Lava**

- \_\_\_\_\_ (Pronounced “ah-ah”-a Hawaiian term), is lava that has a rough, jagged, spiny, and generally clinkery surface.
- \_\_\_\_\_ - (pronounced “pah-hoy-hoy-a hawaiian term also) is lava that in solidified form is characterized by a smooth, billowy, or ropy surface.
- \_\_\_\_\_ - Fluid lava erupted or flowing under water

## **Cinder Cone –**

## **Shield volcano –**

## **Stratovolcano –**

**Are there volcanoes on other planets?**