

## Volcanoes Notes

### Volcanoes

- They result from \_\_\_\_\_
  - The \_\_\_\_\_ of plates or plate \_\_\_\_\_
- Vents- openings in the Earth's crust; \_\_\_\_\_ exits

### 3 things they release

- \_\_\_\_\_ rock (magma)
  - When it reaches the Earth's surface it is called \_\_\_\_\_
- Ash
- \_\_\_\_\_ gases

### 3 types of Volcanoes

- Shield Volcano
- \_\_\_\_\_
- Cinder Cone Volcano
  - Depends on the type of \_\_\_\_\_

### Shield Volcanoes

- \_\_\_\_\_ volcanoes
- Mild eruptions
- Eruptions can happen \_\_\_\_\_ times

### Shield Volcanoes magma

- Rich in \_\_\_\_\_
- \_\_\_\_\_
- Can flow a \_\_\_\_\_ distance
- Produce \_\_\_\_\_ sloping mountains

### Where are they found?

- Hawaii
- Mauna Loa

### Composite Volcanoes

- Made of \_\_\_\_\_ layers of:
  - Ash
  - \_\_\_\_\_
  - Lava

### Composite Volcanoes

- More \_\_\_\_\_ eruptions

### Composite Volcanoes Magma

- Rich in Silicates
- \_\_\_\_\_ lava
- Gases are trapped in magma

### Composite Volcanoes

- Because of gases
  - This causes eruptions that alternated between flow and \_\_\_\_\_ activity
- \_\_\_\_\_ slopes
- \_\_\_\_\_ of meter high

### Examples

- Mount St. Helen
- Mount Fuji

### Cinder Cone Volcanoes

- \_\_\_\_\_
- Violent eruptions
- \_\_\_\_\_ are trapped in magma
- Larger amounts of gases

### Cinder Cone Volcanoes

- \_\_\_\_\_ are thrown from the vent forming a cone.

### Cinder Cone

- They are only active for a \_\_\_\_\_ of time.

## Volcanoes

- Can occur under \_\_\_\_\_
- They are called \_\_\_\_\_
- \_\_\_\_\_ to Shield volcanoes

## Converging Boundaries

- Volcanoes occur at \_\_\_\_\_ Boundaries.
- Usually around the \_\_\_\_\_ Ocean
- \_\_\_\_\_ – 75% of all volcanoes are located on the Pacific Plate Boundary.

## Convergent

- As ocean plates \_\_\_\_\_:
  - Magma \_\_\_\_\_ and forms volcanoes

## Divergent Boundaries

- Volcanoes can occur at \_\_\_\_\_ boundaries also.
- When plates move apart:
  - Magma rises and fills in gaps
  - Magma creates a volcanic \_\_\_\_\_

## Hot Spots

- Magma from deep inside the \_\_\_\_\_ rises to the surface
- This happens in the \_\_\_\_\_ of plates
- This is called a \_\_\_\_\_
- This can form \_\_\_\_\_

## Chain of Islands

- Plates can \_\_\_\_\_
- \_\_\_\_\_ do not move
- This is how \_\_\_\_\_ are formed
  - Hawaiian Islands