

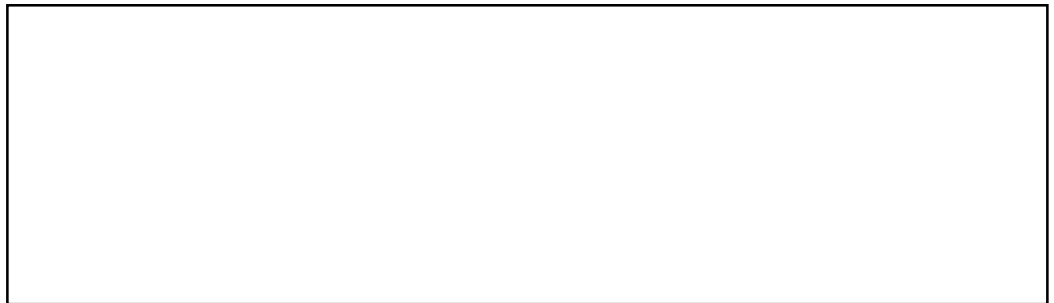
Notes- Volcanoes

Volcanoes

- ▣ Volcanoes are openings in the Earth's _____ where _____, rock fragments and _____ erupt.
- ▣ Volcanoes are formed along _____ plate boundaries and over _____ which are areas where the Earth's _____ is thin.
- ▣ About _____ of all the Earth's active volcanoes are in an area known as the _____ which surrounds the Pacific Ocean.
- ▣ Volcanoes are relieving _____ of the earth the same as earthquakes. The _____ is that magma comes to the surface.

Types of Volcanoes

- ▣ **Cinder cone** – _____ sided volcanoes



Draw a diagram of a cinder cone volcano

- ▣ **Shield** – broad and _____ volcanoes



Draw a diagram of a shield volcano

- ▣ **Composite** – _____, combination of the other 2 _____ of volcanoes.



Draw a diagram of a composite volcano

How and why do volcanoes erupt?

- Hot, molten rock (magma) is _____ dense than the surrounding rocks and will rise up through the crust to erupt on the surface.
- When magma reaches the surface it depends on how easily it _____ (viscosity) and the amount of gas it has in it as to how it erupts.
- _____ amounts of gas and a _____ viscosity (sticky) magma will form an explosive eruption!
 - Think about shaking a carbonated drink and then releasing the cap.
- _____ amounts of gas and (or) _____ viscosity (runny) magma will form an effusive eruption
 - Where the magma just trickles out of the volcano (lava flow).