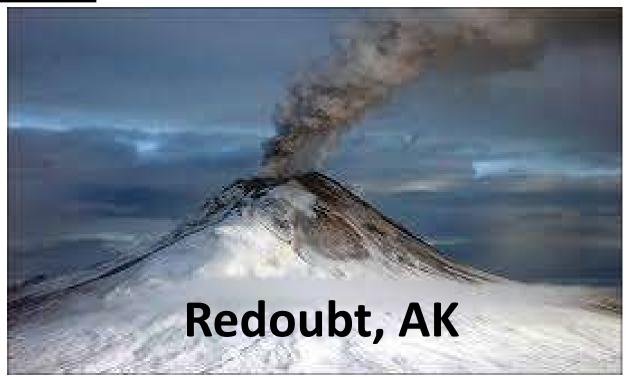
## 18.2 Notes: Volcano Anatomy

Main Idea 1: Volcanoes look like mountains, but they form as a result of <u>repeated</u> eruptions of magma from underground.



http://www.youtube.com/watch?v=g1UWTwDwZp8

## **Active Volcano**

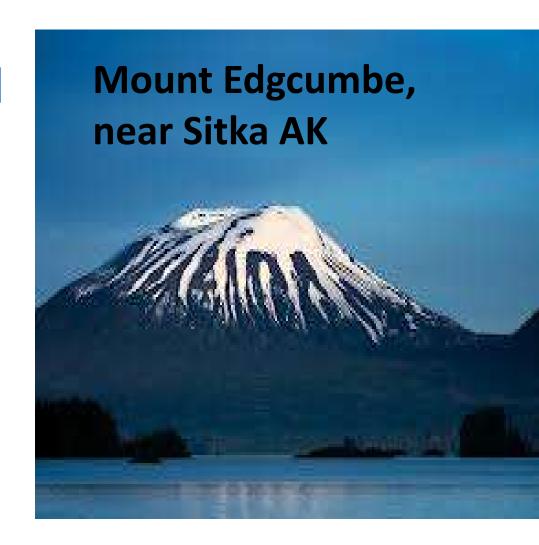
Has erupted during past 100 yrs.



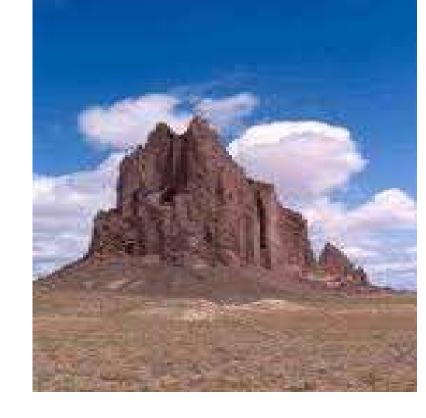


### **Dormant Volcano**

Has not erupted recently, but might



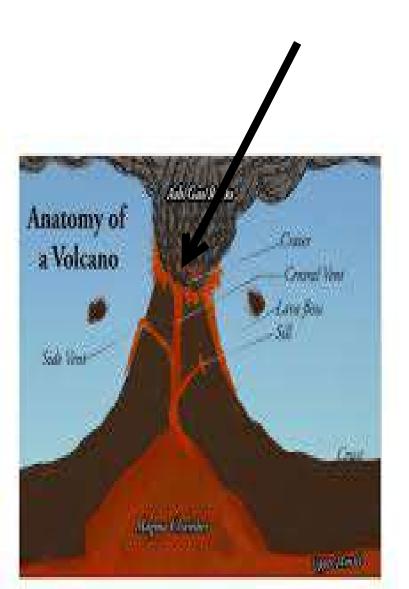




**Extinct Volcano** 

Has not erupted in 1,000 yrs. Scientist think it might not erupt ever again.

# Crater Formation:

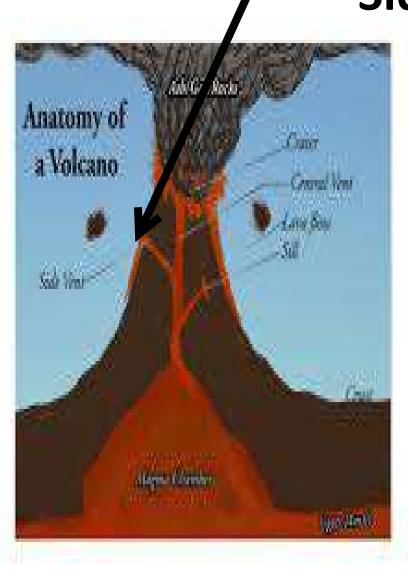


Bowl-shaped opening produced by vent explosions & lava flow



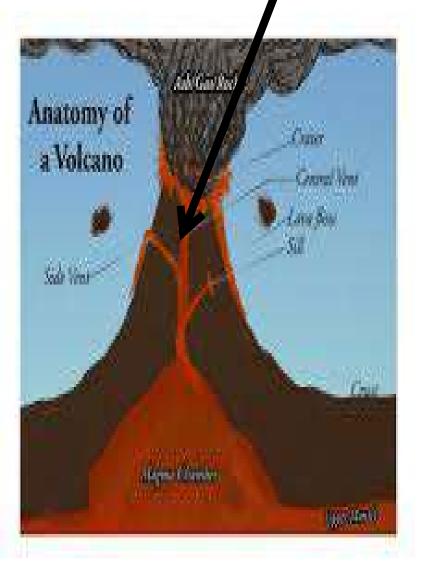
**Describe:** 

Cracks in the crust, where magma can squeeze through.





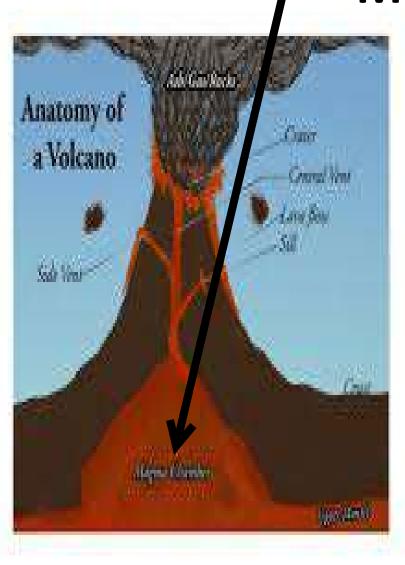
**Describe:** 



Main pipeline from magma chamber to the outside of the volcano.



Under extreme pressure, very hot, & is rising towards Earth's surface.



## Main Idea 2: Three major things come out an erupting volcano:

- 1. gas
- 2. lava
- 3. tephra



### Gas

## **Explain:**

The high pressure of magma can keep gases dissolved. As magma leaves volcano, pressure decreases, gas is released.



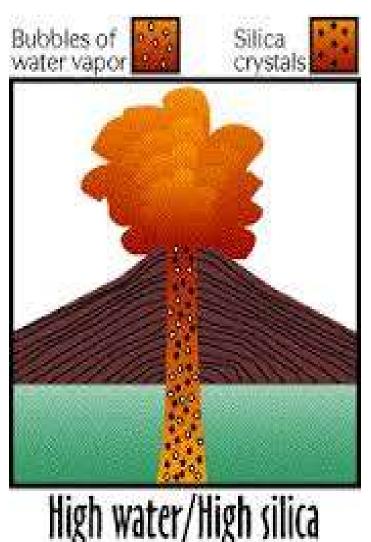
## **Tephra**

## **Describe:**

Solid particles, such as ash & pumice, are spewed out the volcano's top.



#### Lava



Define: Magma that is released above the ground.

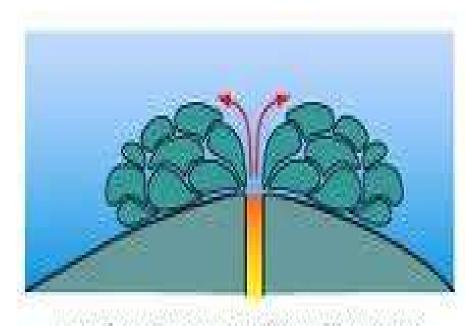
Influence of Silica Content: Silica determines the viscosity; more Si increases viscosity & slows lava flow.

### **Lava Formations:**



### **Pillow Lava**

Describe: Magma that is released underwater & cools quickly.



eruption of magma to form pillow lavas either side of central rift

## **Lava Tubes**



Describe: Tunnels
that extend from
volcanic vents through the long
stretch of lava flow.

## **Pyroclastic Flow**



Describe: A destructive mixture of gas & ash that can reach temps. Of 700degrees C & travels down the side of a volcano at 125mph!!!!!