

Geology Pin

for Cub Scouts and Webelos

Part 1



Overview

- Give examples of the different types of rocks:
 - Igneous
 - Sedimentary
 - Metamorphic
- Learn about the different types of volcanoes.
- Learn the parts of a volcano.

Types of Rocks

- There are three categories of rocks.
- Examples of these rocks are:

Igneous

Granite (in)

Diorite (in)

Pumice (ex)

Obsidian (ex)

Sedimentary

Sandstone

Mudstone

Limestone

Coal

Metamorphic

Slate

Chert

Marble

Soapstone

Volcanoes

- There are several types of volcanoes.
- They are defined by how they are formed.
- We will talk about:
 - Shield Volcanoes
 - Cinder Cones Volcanoes
 - Composite Volcanoes, also called Strato-Volcanoes

Shield Volcanoes

- Have a wide, gentle slope (like a shield).
- Built mostly from fluid lava flows.
- Examples:
 - Mauna Loa in Hawaii (30,100 ft tall)
 - Various volcanoes in Iceland (5,500 ft tall)

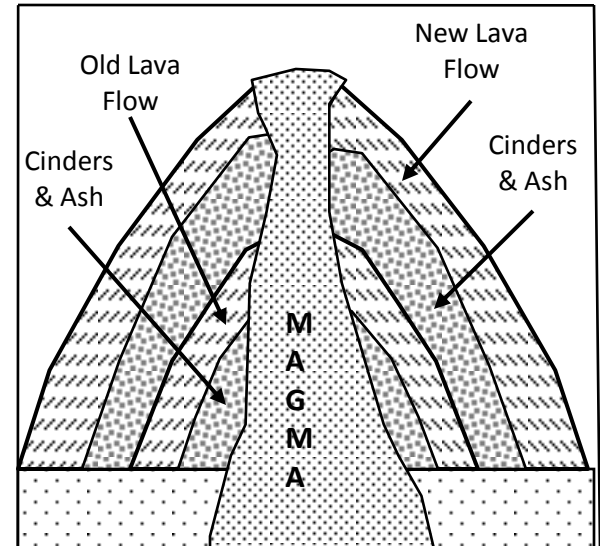
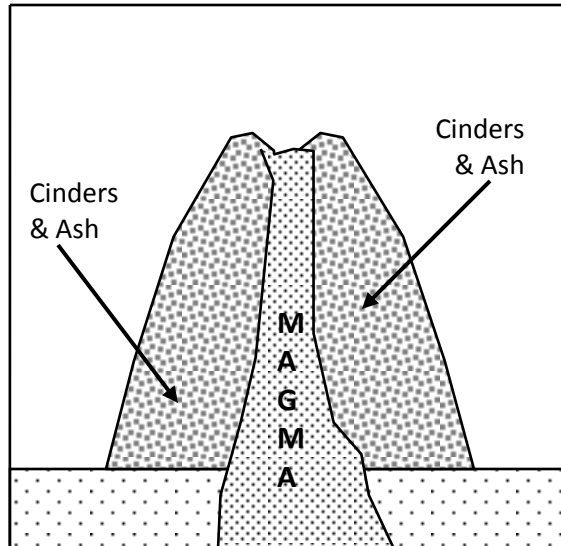
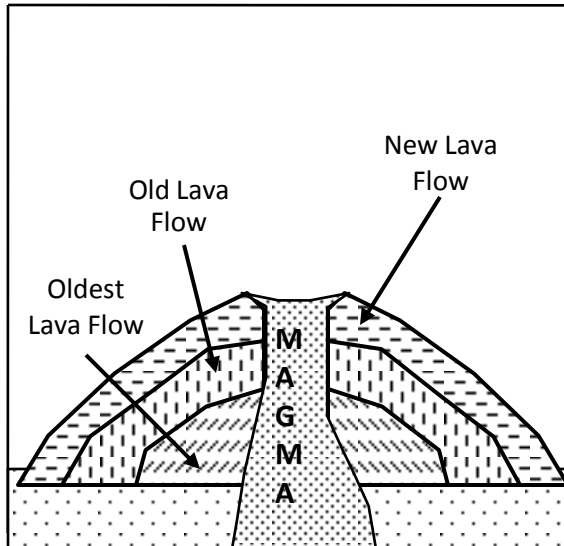
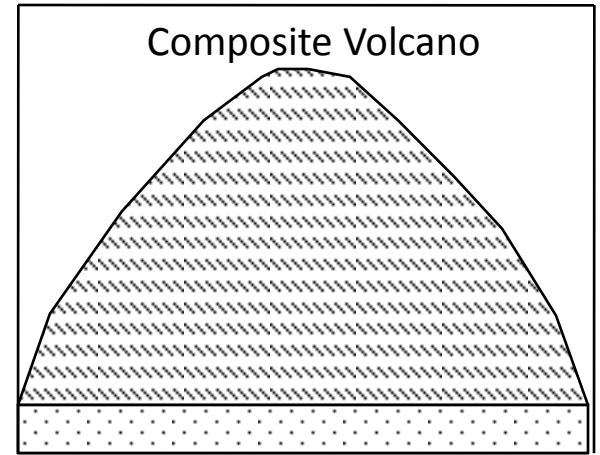
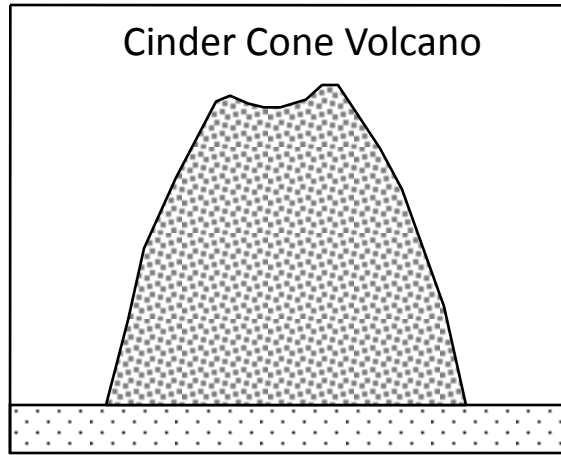
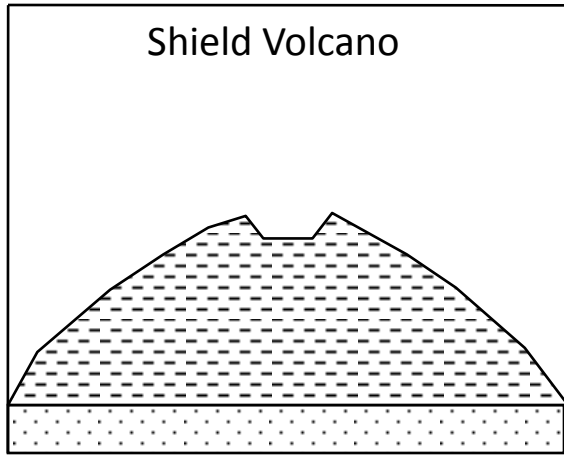
Cinder Cone Volcanoes

- Steep slopes.
- Built from ash and cinder, not lava flows.
- A central vent with a bowl-shaped crater.
- Example:
 - Parcutin in Mexico (9, 200 ft tall)
 - Cerro Negro in Nicaragua (2,200 ft tall)

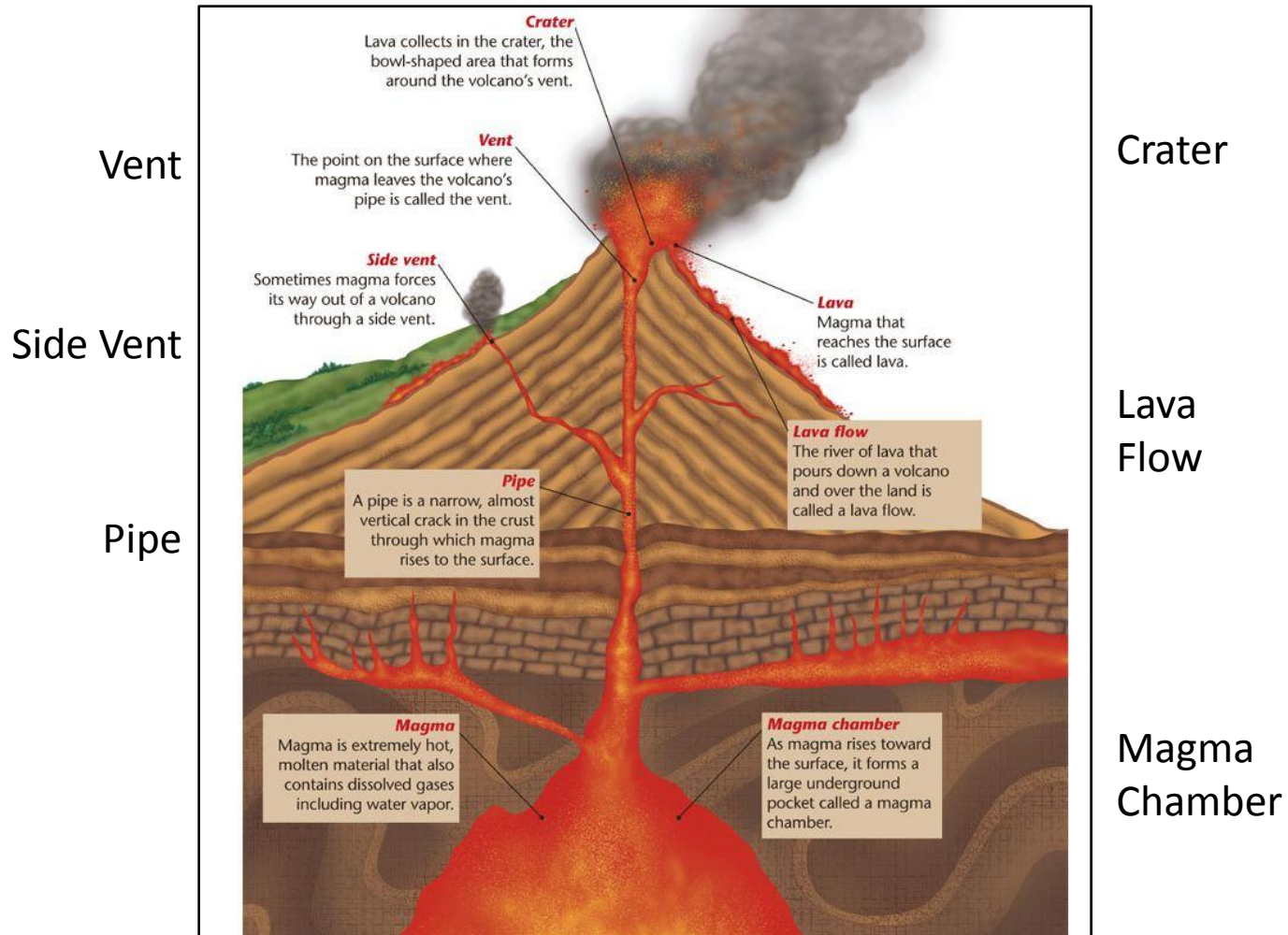
Composite Volcanoes

- Cone-shaped mountains.
- Built from layers of cinders and ash, sandwiched between lava flows.
- Usually tall, unless it blew it's top off.
- Examples:
 - Mount St. Helens in Washington (8,400 ft tall)
 - Mount Fuji in Japan (12, 400 ft tall)

What do they look like?



What are the Parts of a Volcano?



Activity

- Draw the 3 types of Volcanoes:
 - Shield Volcanoes
 - Cinder Cones Volcanoes
 - Composite Volcanoes (Strato-Volcanoes)

OR

- Draw a volcano with its main parts:

Magma Chamber

Crater

Pipe

Lava Flow

Vent

Side Vents