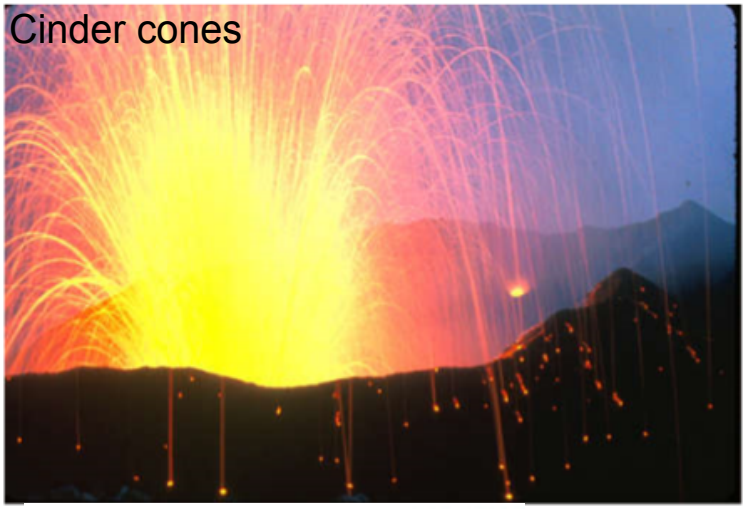
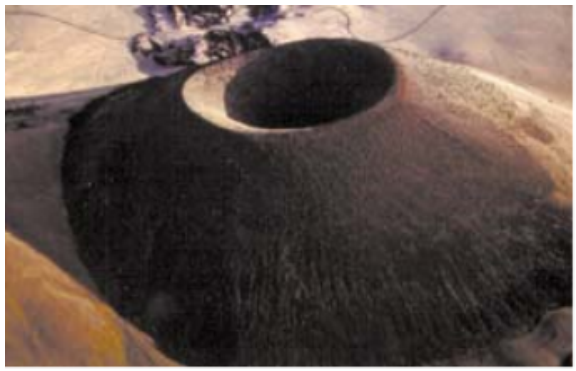
Igneous Rocks

Cooled from magma or lava

Cinder cones





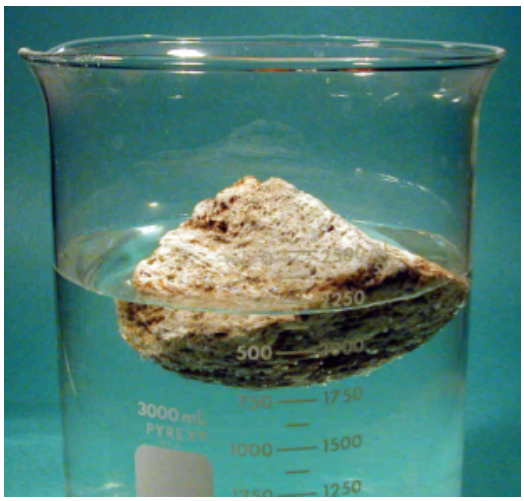
Scoria

Composite (strato) volcanic eruptions

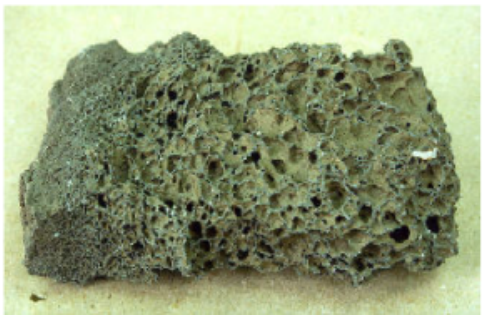
Pinatubo

Mt. St. Helens

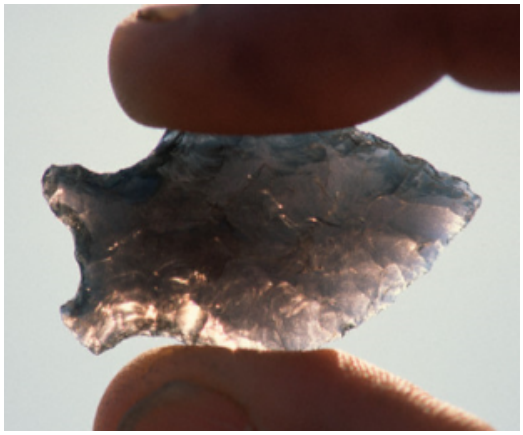
Pumice

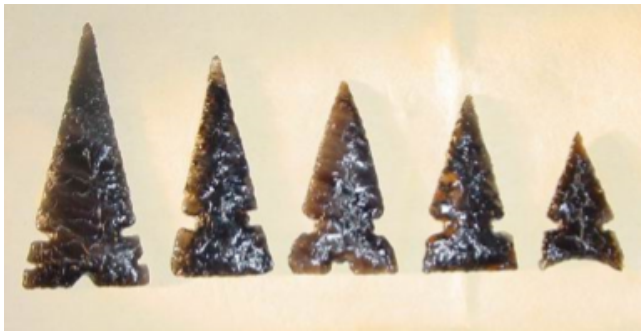


Cooled from lava flows both above ground and under the ocean

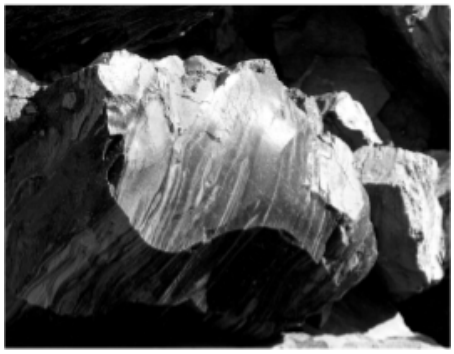


Obsidian When lava cools very quickly





Obsidian Dome
Long Valley, California
1000 to 5000 year old rock



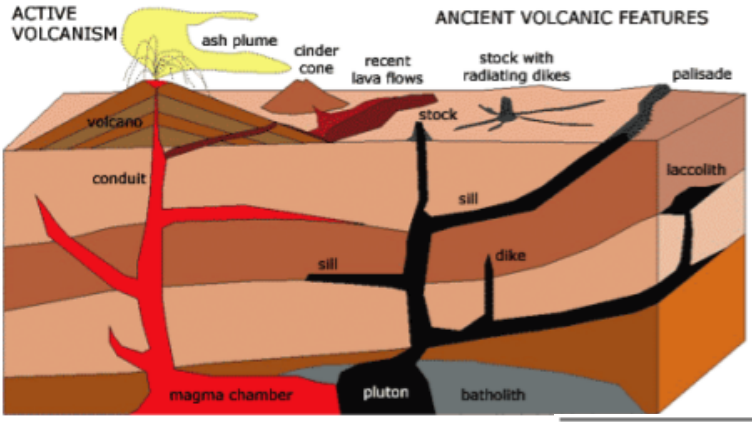
Obsidian from Obsidian Dome

The edge of Obsidian Dome

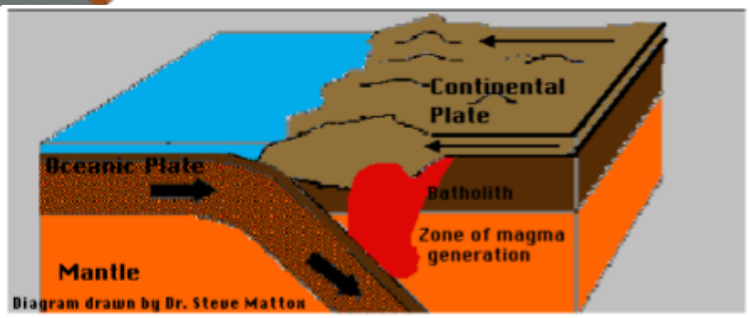
Glass Mountain, Northern California

Mono Craters, California
A mixture of pumice and obsidian

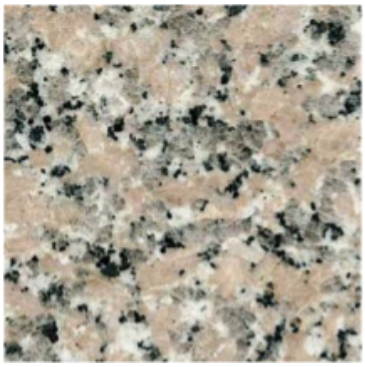
4. The magma which forms intrusive igneous rocks cools very slowly – over tens to hundreds of thousands of years. Where does the magma cool?

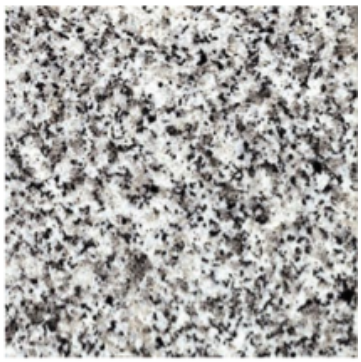


Intrusive igneous rocks form in plutons. Plutons are large "bubbles" of magma in the lithosphere.



5. What are some of the characteristics of intrusive igneous rocks?

Very slow cooling with intrusive igneous rocks grows large mineral crystals.

Locations with lots of granite.

Yosemite
National Park

Devil's Tower, Wyoming

Intrusive igneous rock

Basalt from a long ago magma chamber of a volcano.

Devil's Postpile, California

More basalt