

Volcanism

- Why do eruptions act the way they do?
- One billion people live near volcanoes
- Three different types of rocks: sedimentary, igneous, and metamorphic

Principles of Volcanism

- Igneous rocks: melted by heat (2 rocks plutonic and volcanic, outside of the earth)
- **Pyroclasts**: rocks that have been pulverised by lava ; fragmented volcanic rock ejected upwards explosively ex: ash
- Volcanic rocks- lava and pyroclasts
- Mount saint helens- erupted in 1980
- **Magma**- molten rock inside earth (in a magma chamber under earth)
- **Lava**- magma that reaches the surface
- Pumice- only rock that floats (less then the density of water)
- obsidian - rock that comes out so fast from volcano it becomes glass (black)
- Once it starts to cool down the lava will slow down
- DORMANT= volcano thats alive but not active
- VOLCANOES ABOVE SUBDUCTION ZONES!!!!

Characteristics of Magmas

1. Composition

- silica: minerals with Si and O
- Mafic- 50% silica and Mg, Fe | ex: basalts (dark, dense rocks)
- Felsic- 70% silica and quartz, feldspar, high amount of gasses | ex: rhyolites (light, less dense rocks)
- Intermediate- 60% silica (most common on land) ex: andesites (most in andes mountains, chile)



2. Viscosity

- Resistance to flow, something with high viscosity does not want to move, its lazy
- What controls the flow? Controlled by silica content and temp

Volcanism Study Guide

Arshad Iqbal



Volcanism Study Guide:

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