

Volcanism is a ubiquitous process across the surface of the Earth (and other terrestrial bodies)

The term "volcanism" comes from Vulcan, the Roman god of fire, metalworking, and the forge. On Earth, volcanism occurs at:

- Convergent boundaries (e.g. subduction zones and arcs)
- Divergent settings (e.g. hot spots and rifts)

Volcanism occurs when magma derived from Earth's mantle

erupts on the surface

Once magma erupts on the surface, it is called lava.

- Lava flows across Earth's surface
- Magma and lava are $\sim 1000^\circ\text{C}$ compared to the temperatures in the Earth's interior
- Molten rocks, i.e.

Two Types of Volcanic Eruptions:

- **Hawaiian type:** nonexplosive eruption of magma, which slowly flows over the surface of the Earth
- **Explosive type:** eruptions occur with a sudden explosion, which lead to massive flows, often with toxicity

Types of Magma:

- **Basaltic:** common in the ocean

- **Basalt:**

- magnesium (Mg) + iron (Fe) rich

- $\sim 1000^\circ\text{C}$ - 1200°C

- **Andesitic:**

- $\sim 900^\circ\text{C}$ - 1000°C

- **Rhyolite:**

- silica + aluminum

- $\sim 700^\circ\text{C}$ - 800°C

There are 3 types of magma:

- **Basaltic:** high composition, SiO_2 rich, dark and represents 60% of the total magma
- **Andesitic:** intermediate composition, SiO_2 rich, dark and represents 20% of the total magma
- **Rhyolitic:** high composition, SiO_2 rich, light and represents 20% of the total magma

Earth Science Volcanism Study Guide

Patricia Sutch



Earth Science Volcanism Study Guide:

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