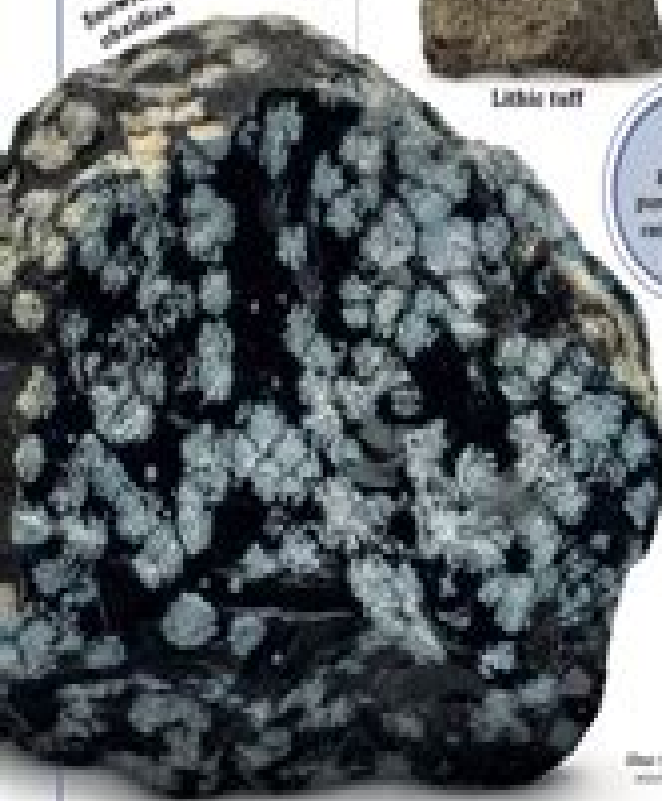


# Volcanic rocks

ROCKS



Pumice

Small holes (vesicles) in the pumice



Lithic tuff

Small, air-filled pores make pumice so light it can float on water



Trachyte

High amount of silica

Mountaintop



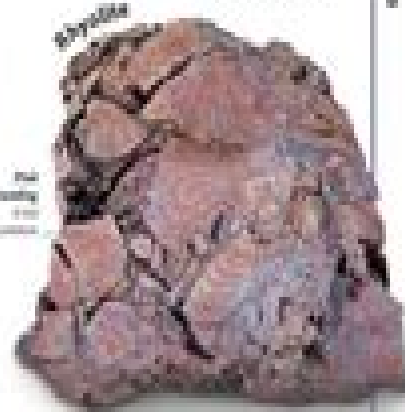
Basalt

High iron



Scoria

High iron



Rhyolite

High silica



Obsidian



Andesite



Scoria



Mount Fuji, Japan

The snow of Mount Fuji



Scoria

High iron

## VIOLENT VOLCANOES

- Yellowstone, Wyoming, 640,000 years ago**  
A massive eruption, the largest in 2 million years, is thought to be about 10 miles.
- Mount Tambora, Indonesia, 1815**  
The largest eruption in recorded history, it killed 100,000 people and caused the "Year Without a Summer."
- Mount Pinatubo, Philippines, 1991**  
An eruption that killed 800 people and caused \$4 billion in damage.
- Mount St. Helens, Washington, 1980**  
An eruption that killed 57 people and caused \$2 billion in damage.

Volcanic, or extrusive igneous, rocks are born of fire. Magma hits the surface at temperatures of 2,100°F (1,150°C). Bubbling and fizzing with dissolved gas, it explodes violently through volcanoes or oozes slowly from a vent or fissure.

Volcanic rocks form when lava cools and solidifies. They have small grains because they cool quickly, giving crystals little time to grow. Basalt, andesite, and trachyte are the most common lavas on Earth. Because it is so thick, rhyolite magma can cause the most violent

eruptions. Most lavas are made up of silicate minerals including feldspar, olivine, amphibole, mica, and quartz. Tuff is a rock formed of volcanic ash, which is sometimes hot enough to weld together. Obsidian, a black volcanic glass, cools too quickly to form crystals. During

volcanic eruptions, volcanoes may shoot out large chunks of lava called bombs. Dissolved gases pump pumice full of frothy bubbles. Pele's hair—named after the Hawaiian fire goddess—is made of long, wispy, mineral fibers that are drawn out in the air as liquid rock erupts.

ROCKS

# Volcanic Rocks

**KJ Lindholm-Leary**



## **Volcanic Rocks:**

## **Volcanic Rocks** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Volcanic Rocks**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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