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# What is Volcanoes

Volcanoes: Nature's Fiery Mountains Erupting Lava and Ash!

## DEFINITION

> Volcanoes are openings in the Earth's surface where molten rock, ash, and gases escape. They can create mountains and islands through eruptions.

## KEY CONCEPTS

### Magma

Magma is molten rock beneath the Earth's surface that can erupt as lava.

### Eruption

An eruption is when a volcano releases magma, ash, and gases into the air.

### Lava

Lava is magma that reaches the Earth's surface and flows during an eruption.

### Volcanic Ash

Volcanic ash consists of tiny fragments of rock and minerals blown into the air during an eruption.

### Types of Volcanoes

There are different types of volcanoes, including shield, composite, and cinder cone, each with unique shapes and eruption styles.

## EXAMPLES

→ Mount St. Helens erupted in 1980.

→ Hawaii's Kilauea is an active shield volcano.

→ Mount Vesuvius buried Pompeii in ash.

## MEMORY TIPS

★ Remember 'MEL' for Magma, Eruption, Lava.

★ Think of 'ASH' to recall Ash, Shield, Hot lava.

★ Visualize a volcano as a 'mountain with a hole' to remember its structure.

## COMMON MISTAKES

✗ Confusing magma with lava; magma is underground, lava is above.

✗ Thinking all volcanoes erupt violently; some are gentle.

✗ Forgetting that volcanic ash can be harmful and travel far.

## QUICK RECAP

Volcanoes are openings where magma escapes, creating lava and ash. They come in various types and can erupt in different ways. Understanding these concepts helps us learn about Earth's dynamic processes.