# Volcano Eruption



- Identify the sphere(s) this photo would be in and explain why.
- 2 Identify 3 types of interactions that might occur here.
- Identify 3 types of interactions that humans might have here.
- 4 Identify potential animal and plant life that might live here.

#### **Potential Answers:**

### Atmosphere and geosphere and biosphere:

# **Biosphere:**

- People living near volcanoes are at risk of lava, ash, and toxic gases that can be dangerous to their health.
- People living near volcanoes may be affected by air pollution caused by the emissions of volcanic gases.
- Volcanic eruptions can cause destruction to buildings, infrastructure, and people's homes.
- Volcanic eruptions can cause landslides and mudflows, which can destroy farmland and cause flooding.
- Volcanic eruptions can cause food shortages due to destruction of crops and livestock.
- Volcanic eruptions can also cause disruption of transportation and communication systems.

#### **Geosphere:**

- Volcanic eruptions can create new landforms such as lava flows, cinder cones, and ash deposits.
- Volcanic eruptions can change the landscape by burying existing landforms with lava and ash.
- Volcanic eruptions can release large amounts of heat energy, which can affect the climate of the area.
- Volcanic eruptions can trigger earthquakes and other seismic activity.
- Volcanic eruptions can cause changes in the soil composition, which can affect plants and animals in the area.

## **Atmosphere:**

- Volcanic eruptions can release particles and gases into the atmosphere.
- Volcanic particles and gases can influence global climate conditions by reflecting and absorbing sunlight.
- Volcanic eruptions can cause the atmosphere to cool, which can cause changes in weather patterns.
- Volcanic eruptions can produce sulfur dioxide and carbon dioxide, which can lead to global warming.
- Volcanic eruptions can also release ash and particles into the atmosphere, which can reduce air quality.