Name _____

The Mystery of Volcanic Ash Clouds: Impact on Aviation Unveiled

Multiple Choice Questions

1. What is the primary composition of volcanic ash clouds?

a. Fluffy water vapor

b. Tiny, jagged rock particles

c. Soft, glassy substances

d. Gases like oxygen and nitrogen

2. Why are volcanic ash particles dangerous for aircraft?

a. They enhance engine performance.

b. They increase visibility for pilots.

c. They have abrasive and melting properties.

d. They improve aerodynamics.

3. What potential risks do volcanic ash clouds pose to passenger safety?

a. Ash particles can improve respiratory health.

b. Ash ingestion enhances engine efficiency.

c. Passengers may experience better visibility.

d. Ash particles can lead to respiratory problems and eye irritation.

4. How do aviation authorities detect and monitor volcanic ash clouds?

a. Through specialized instruments called VAACs.

b. By using giant fans to blow away ash clouds.

c. By deploying weather balloons.

d. Through radar installations at airports.

5. What case study is mentioned in the passage to illustrate the impact of volcanic ash clouds on aviation?

a. The eruption of Mount Vesuvius in 79 AD.

b. The 2010 Eyjafjallajökull eruption in Iceland.

c. The eruption of Mount Kilimanjaro in 2008.

d. The volcanic activity in Yellowstone National Park.