

Volcano Hazards Scavenger Hunt

Overview:

As students navigate the “Volcano Hazards” unit of the “*Ola Ka Honua: Volcanoes Alive*” multimedia and video playlist, they will identify key information by finding the answers to questions on the Student Worksheet: “Volcano Hazards Scavenger Hunt.”

Objectives:

The student will research information by interacting with the “*Ola Ka Honua: Volcanoes Alive*” multimedia and video playlist.

Materials:

- “*Ola Ka Honua: Volcanoes Alive*” multimedia and video playlist
- Student Worksheet: “Volcano Hazards Scavenger Hunt”



Activity Procedure:

Distribute the “*Ola Ka Honua: Volcanoes Alive*” multimedia and video playlist and the Student Worksheet: “Volcano Hazards Scavenger Hunt.” Ask students to complete the worksheet by navigating through the playlist.

Answers to Student Worksheet:

1. Maurice and Katia Kraft
2. True
3. hazard maps, colored situation codes and computer-based updates on websites
4. scalding, silicosis, and bench collapse
5. False
6. pyroclastic flow
7. lahar
8. SO₂ (Sulfur dioxide)
9. acid rain
10. CO₂ (Carbon dioxide)
11. tsunamis, avalanches and landslides
12. composite volcano
13. shield volcano

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Directions: Use Unit 8 of the *Ola Ka Honua: Volcanoes Alive* playlist to answer the questions.

1. Name the two French scientists who are said to have witnessed and photographed more erupting volcanoes than anyone else in history.

2. True or False: Hawaiians have issued warnings about volcanic hazards since ancient times.

3. What three methods do scientists use to warn residents about volcanic hazards?
(1) _____ (2) _____ (3) _____

4. What three hazards are created when lava enters the ocean?
(1) _____ (2) _____ (3) _____

5. True or False: Jet aircraft fly so high that they are not affected by volcanic ash.

6. What is the name for a super-heated cloud of ash, gas, and rock that rides a cushion of air down the slopes of an erupting volcano? _____

7. What is the name for a mudflow triggered when heat from a volcano rapidly melts glacier ice and snow, or when intense rainfall saturates unstable ground? _____

8. What poisonous gas released by volcanoes can penetrate deep into the airway, causing respiratory problems? _____

9. What is volcanic SO₂ combined with water vapor falling to the ground? _____

10. What colorless, odorless gas released by volcanoes is denser than air and can flow downhill from volcanoes, suffocating animals and people? _____

11. Vibrations from earthquakes can trigger what three hazards?
(1) _____ (2) _____ (3) _____

12. Violent, explosive eruptions and lahars are the causes of most hazards associated with what type of volcano? _____

13. Extremely hot lava flows are the cause of most hazards associated with what type of volcano?
