

## Volcano Hazards Scavenger Hunt

### Overview:

As students navigate the “Volcano Hazards” unit of the “*Ola Ka Honua: Volcanoes Alive*” interactive DVD, 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*” interactive DVD.

### Materials:

- “*Ola Ka Honua: Volcanoes Alive*” interactive DVD
- Student Worksheet: “Volcano Hazards Scavenger Hunt”



### Activity Procedure:

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

### 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. SO<sub>2</sub> (Sulfur dioxide)
9. acid rain
10. CO<sub>2</sub> (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* DVD 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.  
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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 SO<sub>2</sub> 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?  
\_\_\_\_\_