

Hazard Simulator Scavenger Hunt

Overview:

The Hazard Simulator unit of the *Ola Ka Honua: Volcanoes Alive* interactive DVD demonstrates how many different factors affect the hazards created by a volcano. During this activity, students use the simulator to answer questions about volcano hazards and safety.

Objectives:

The student will:

- understand the factors that contribute to volcanic hazards;
- use the *Ola Ka Honua: Volcanoes Alive* interactive DVD to simulate volcanic eruptions and witness hazards of these eruptions; and
- identify the volcanic hazards associated with shield and composite volcanoes.

Materials:

- *Ola Ka Honua: Volcanoes Alive* interactive DVD
- Student Worksheet: “Hazard Simulator”



Activity Procedure:

Distribute the *Ola Ka Honua: Volcanoes Alive* interactive DVD and the Student Worksheet: “Hazard Simulator Scavenger Hunt.” Ask students to use the Hazard Simulator unit of the DVD to help them answer the worksheet questions. Explain that this unit describes many factors that contribute to volcanic hazards and enables students to witness the impact of volcanic eruptions and emissions on surrounding communities.

Answers to Student Worksheet:

1. a) gas
2. a) ash fall
3. d) gas
4. a) hot and runny
5. b) warm and sticky
6. b) on a hill
7. c) no

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Directions: Use the Hazard Simulator unit of the *Ola Ka Honua: Volcanoes Alive* interactive DVD to find the answers to the questions below.

1. Wind direction can affect which of these shield volcano hazards?
 - a) gas
 - b) lava
 - c) lahar
2. Wind direction can affect which of these composite volcano hazards?
 - a) ash fall
 - b) pyroclastic flow
 - c) lahar
3. Which deadly hazard is invisible?
 - a) ash fall
 - b) lava
 - c) pyroclastic flow
 - d) gas
 - e) lahar
4. What type of magma creates a shield volcano?
 - a) hot and runny
 - b) warm and sticky
5. What type of magma creates a composite volcano?
 - a) hot and runny
 - b) warm and sticky
6. Where is the safest place to build a home near a shield volcano?
 - a) in a valley
 - b) on a hill
7. Is there a place a home can be safe from a pyroclastic flow near a composite volcano?
 - a) yes, in a nearby valley
 - b) yes, on a nearby hill
 - c) no