

Monitoring Volcanoes Vocabulary

Overview:

Learning vocabulary is an essential step in understanding a concept. This lesson will review vocabulary associated with Unit 7: “Monitoring Volcanoes.”

Objectives:

The student will learn essential vocabulary words needed to understand the concepts in the “Monitoring Hawaiian Volcanoes” unit. These terms include: EDM (electronic distance measurement), tiltmeter, seismometer, lono, hula, GIS (geographic information system), and magnesium oxide.

Materials:

- *Ola Ka Honua: Volcanoes Alive* multimedia and video playlist
- Student Worksheet: “Monitoring Volcanoes Vocabulary”

Activity Procedure:

Distribute the Student Worksheet: “Monitoring Volcanoes Vocabulary.” Ask students to answer the riddles by using the vocabulary words from Unit 7. Students will guess the answers to six riddles, and create two of their own riddles. Allow students to review the *Ola Ka Honua: Volcanoes Alive* multimedia and video playlist to find the terms and their definitions.

Answers to Student Worksheet:

1. EDM (electronic distance measurement)
2. tiltmeter
3. seismometer
4. lono
5. GIS or Geographic Information Systems
6. magnesium oxide
7. Answers will vary but should convey this definition: hula-a dance in which dancers use their bodies to imitate the nature of a particular lava flow

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Directions: For the first six questions, read the riddle and guess the correct answer. For the last question, write your own riddle for the word provided. After you have completed the worksheet, share your riddle with another student.

1. Riddle: *I measure caldera diameter using a laser beam.
I tell scientists if calderas are as wide as they seem.*
Answer: _____

2. Riddle: *The change in slope of a volcano's side is what I'm used to measure.
I reveal information about changes in the magma chamber.*
Answer: _____

3. Riddle: *I measure vibrations that happen when Earth quakes.
A seismogram is the record that my information makes.*
Answer: _____

4. Riddle: *I am an ancient oral report of Hawaiian origination.
I describe volcanic activity, such as lava flows, using detailed observations.*
Answer: _____

5. Riddle: *I am a type of software and map-making is my quest.
Give me some GPS data, and put me to the test!*
Answer: _____

6. Riddle: *Scientists cool lava in water and take it to the laboratory,
so they can find out lava temperature. This compound helps tell the story.*
Answer: _____

7. Riddle: _____

Answer: *hula*