

## Earthquakes & Volcanoes

Name \_\_\_\_\_

Visit the sites listed on the [Earth Science page](#) of the [Kid Zone!](#)  
Go to <http://sciencespot.net/> and click the Kid Zone graphic!

### Earthquakes For Kids (USGS)

1. Have we had any earthquakes in our region? HINT: Go to the "Did You Feel It?" section and click our state. List earthquakes by date, location, and magnitude!

2. Search the "Cool Earthquake Facts" area to find the answers to these questions.

(1) What was the largest earthquake in the U.S.? When, where, and what magnitude?

(2) What are moonquakes?

(3) What is a seiche?

(4) True or False? The San Andreas Fault is a single-continuous fault line that is more than 1300 km (800 miles) long, and in some spots is as much as 16 km (10 miles) deep.

(5) Which two states have the fewest earthquakes?

### Roots of a Volcano

Go to the "Anatomy of a Volcano" area to answer these questions. Click the "Next" button at the top to move to the next slide.

1. Where does the molten rock, or magma, that is erupted come from?

2. How many active volcanoes are on Earth? Where are most of them located?

3. What plates surround the Pacific plate?

4. What happens at a subduction zone?

Close the interactive window and read through the article on the main page to answer these questions.

5. How many volcanoes are erupting every day?

6. How many active (or potentially active) volcanoes are in the United States? \_\_\_\_\_ Where are they located? List them below and provide numbers for each area.

## **Virtual Cave (Look in the last section on the Earth Science Links page!)**

1. Where are the largest lava tube caves found?

2. How are lava tube caves formed?

Most tubes form when fluid \_\_\_\_\_ flows down the sides of \_\_\_\_\_, the upper layer begins to \_\_\_\_\_, and the lava beneath continues to \_\_\_\_\_ in tubular conduits beneath the surface. Due to the insulating effects of the hardened lava above, molten lava is able to travel considerable \_\_\_\_\_ underground with very little cooling. In Hawaii, lava tubes have carried fluid lavas \_\_\_\_\_ or more miles from their source. Tubes may also form when lava follows \_\_\_\_\_ or \_\_\_\_\_ on the surface, which then \_\_\_\_\_ over as lava accumulates along the top edges.

3. Which type of lava would most likely form lava tube caves: a'a or pahoehoe? Why?

4. What are lava balls? How are they similar to snowballs?

5. What are lava roses?

6. How are helictites different from regular stalactites?

### **QUIA! Games**

Go back to the Kid Zone and click the link for "Mrs. T's Quia Page".

1. Try the "Earthquake and Volcano Challenge" game! Play several rounds to test your knowledge of earthquakes and volcanoes. How did you do?

2. Think you are ready for the big challenge? Try the "Earthquakes & Volcanoes Rags to Riches" game. How did you do?

Rags to Riches Disclaimer:

No money will officially be awarded; however, you may dream about being rich!