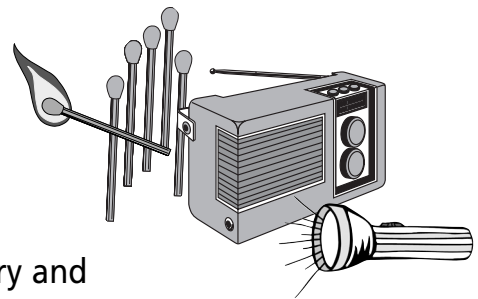


Online Book Club

The Earthshaking Earthquake Mystery

Bring It To Life!

1. Make an Earthquake Survival Kit! You learned about things that you might need in this mystery. Collect the proper items and get a secure box or container for them. Be sure to mark your box properly and put it in a safe place.



2. The earthquake ride at Universal Studios was both scary and exciting for the Masters kids because it was so realistic! Would you like to experience the earthquake ride? Think of some additions to the earthquake ride and share them with the group.

3. Take a piece of construction paper and tear it in two uneven pieces. Slowly slide the two pieces of paper back together. Do not try to fit the pieces together like a puzzle, just get close enough to doing so that the pieces of paper push up against each other or overlap. This is a great illustration of how the shifting of tectonic plates can form valleys and mountains after earthquakes!

4. You can be a Junior Ranger! Go with your friends to forests, parks, streams, even your school's sports fields and pick up trash and plant trees or flowers! Don't forget to make yourself some official nametags and Junior Ranger patches!



Online Information

The Earthshaking Earthquake Mystery

Earthquake Trivia

1. The Pacific Coast is the United States' most active earthquake zone. Florida and North Dakota have the least number of earthquakes, and Alaska has the most.
2. More than 8,000 earthquakes happen every day, but most are not strong enough to be noticed. That's about five or six every minute!
3. In 1811, an earthquake in Missouri knocked over chimneys 370 miles away in Cincinnati.
4. A really big earthquake can release 10,000 times the energy of the first atomic bomb.
5. Earthquake waves are measured by very sensitive instruments called seismographs.
6. Depending on the region, an earthquake can be caused by tectonic plate movement, volcanic activity, or explosions.
7. Earthquakes under the ocean can cause huge waves called tsunamis.
8. The Richter magnitude scale was developed in 1935 and measures ground motion caused by an earthquake.
9. The largest earthquake ever recorded was a 9.5 on the moment magnitude scale. It occurred in 1960 along the Pacific coast of Chile.
10. "Moonquakes" are earthquakes on the moon, but they are smaller and less frequent than the ones on Earth.
11. Earthquakes can happen in any weather.
12. The most deadly earthquake in recorded history was in China in 1556. It killed about 830,000 people who were living in caves carved out of soft rock.



Online Pop Quiz

The Earthshaking Earthquake Mystery

1. Who was the first person to propose that the sun is the center of the universe?
2. What is the epicenter of an earthquake?
3. What California city was hit by a massive earthquake in 1906?
4. If you are inside a house, where is a safe place to stand if an earthquake hits?
5. What changed in Nevada as a result of the earthquake of 1915?
6. The New Madrid Fault is located in what state?
7. What caused the changes to the eruption cycle of Old Faithful?
8. Artemis is allergic to what type of animal?



Know your SAT Words!

Mystery Name: _____

SAT Words



1. abort
2. cleaved
3. deliberate
4. euphoric
5. languid

Write a sensational sentence using all five SAT Words from this mystery.



Online Book Club

The Earthshaking Earthquake Mystery

Talk About It!

1. In the motel room, Nick and Curie were both scared but had to be strong and calm for the sake of the other. When was a time you were scared but had to be really brave?
2. What are several things you can do to prepare for an earthquake?
3. Why do you think Clem told the men in the black sedan that his station was out of gas?
4. Why do you think more earthquakes happen in the western parts of the country?
5. Why would someone want to steal a scientist's invention?
6. What's the scariest weather event you have ever experienced?
7. Think about retrofitting buildings after an earthquake. What do you think would be the strongest design to withstand natural disasters?
8. Do you think an invention that can predict earthquakes like the one Artemis Masters hoped to create is a possibility?
9. Who was your favorite character in the book?
Why did you like that person?

