Earthquake Research Report

Name: _____

Teacher: _____

Date: _____

What is an earthquake?

The Three Main Types of Faults

There are three different kinds faults, or fractures in the Earth's crust:

1. strike-slip faults
2. normal faults
3. reverse faults (thrust faults)

Research each kind, write about them, and illustrate them.

Strike-slip Faults

Normal Faults

Reverse (Thrust) Faults

Where on our planet do earthquakes occur, and what is the relationship to tectonic plates, faults, and earthquakes?

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What is the "Ring of Fire"? Describe it and draw a map of where the Ring of Fire is located.

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What is liquefaction?

What are "P" waves and "S" waves?

What are foreshocks and aftershocks"

Can earthquakes be predicted? What is the current technology surrounding earthquake prediction and why would it benefit us to predict earthquakes?

How are earthquakes measured? What is the Mercalli Scale?

How are tsunamis related to earthquakes?

Seismologists when discussing California often talk about "The Big One". What do they mean and why is it important?

Access The United States Geological Survey website (usgs.gov) and describe the real-time earthquake information that can be found there.

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Choose two major, historical earthquakes that interest you and write about them. Compare and contrast them and write about their similarities and differences.

If an 8.0 magnitude earthquake happened in a major U.S. city tomorrow, what possible events could occur? Describe what you think the first day after the earthquake would be like.

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How can people prepare for future earthquakes?

Prepare for Earthquakes!

Additional Information

Bibliography

Rubric for Performance Task
Written Report

Element	Points Possible	Points Earned
Content	60	
Writing Mechanics	20	
Creativity	10	
Neatness	10	
Total	100	