

## Earthquake Webquest

Answers go on a separate sheet of paper!

### Objective:

Part 1: To research information on some of the most historic, largest and destructive earthquakes in recent history. Part 2: To create an informational brochure for kids and teens on earthquake safety.

### Earthquakes to research:

1. The great San Francisco earthquake and fire of 1906.



1. What type of plate boundary?
2. What was the magnitude?
3. How deep underground was the earthquake?
4. How severe was the damage? What type of damage was caused to the area?
5. Was there loss of life?
6. Have there been additional earthquakes in that area since the 1906 quake?

2. The New Madrid, Missouri Earthquakes of 1811-1812



1. How many earthquakes occurred during the two day period?
2. What were their magnitudes?
3. How severe was the damage? What type of damage was caused to the area?
4. Was there loss of life?
5. Have there been additional earthquakes in that area since the 1811-1812 quakes?

3. Chile earthquake May 22, 1960, magnitude of 9.5



1. What type of plate boundary?
2. What was the magnitude?
3. How deep underground was the earthquake?
4. How severe was the damage? What type of damage was caused to the area?
5. Was there loss of life?
6. Have there been additional earthquakes in the area since the 1960 quake?

Part two: Create an informational brochure or poster for kids and teens on Earthquake preparedness.



In many states of the U.S., damaging earthquakes can happen at any time. Living along the Pacific coast mountain belt, or in the central Midwest, earthquakes can be very hazardous. The USGS has asked you to create a brochure for children and teens that live in areas prone to earthquakes.

**Objectives:** When gathering information for your brochure or poster you will need to address the following items:

- ✓ Think about your audience – You are creating a brochure for kids and teens.
- ✓ Explain how earthquakes transmit energy.
- ✓ Explain the effects associated with earthquakes.
- ✓ Offer ways to reduce the damage caused by earthquakes.
- ✓ Offer ways to stay safe during and immediately following an earthquake.

Brochure/poster requirements

- Be creative
- Be colorful
- Be neat & organized

The objectives of this assignment can be easily met by creating four distinct categories.

- ✓ Preparing for an earthquake
- ✓ What to do during an earthquake
- ✓ What to do after an earthquake
- ✓ Suggested ways to reduce damage

Within your brochure or poster you should define the following terms – try to be creative😊

- Earthquake
- Epicenter ~ illustrate
- Focus ~ illustrate
- Earthquake hazard
- Seismic waves
- P waves ~ illustrate
- S waves ~ illustrate
- Surface waves

Useful web sites:

<http://earthquake.usgs.gov/earthquakes/>

<http://earthquake.usgs.gov/earthquakes/status/events/1811-1812.php>

<http://earthquake.usgs.gov/regional/nca/1906/18april/index.php>

[http://earthquake.usgs.gov/earthquakes/world/events/1960\\_05\\_22.php](http://earthquake.usgs.gov/earthquakes/world/events/1960_05_22.php)

<http://www.drgeorgepc.com/Tsunami1960.html>

<http://earthquake.usgs.gov/learn/kids/>

<http://environment.nationalgeographic.com/environment/natural-disasters/earthquake-safety-tips/>