Technology FACTivity

Time Needed

One class period

Materials

(for each student or group of students)

- Computers with Internet access
- Two maps chosen from http://earthquake.usgs.gov/earthquakes/byregion/ (Recommended: one map from the East Coast of the United States and one from the West Coast of the United States)
- 2014 National Earthquake Hazard Map http://earthquake.usgs.gov/hazards/hazmaps/conterminous/2014/images/HazardMap2014_lg.jpg

The questions you will answer in this FACTivity are: How does the seismic data compare between different States? What is the seismic activity like in your State? What does the 2014 National Earthquake Hazard Map tell you about the seismic hazard in your State?

Methods

On a computer, go to http://earthquake.usgs.gov/earthquakes/region.php. Select one State from the East Coast and one from the West Coast. Compare the map data between the two States. Answer these questions:

1. What are the main differences between the maps from each State?
2. What is one similarity between the maps?
3. Based on the State maps you are looking at, which State would you say has the most seismic activity? Why?
4. Now, take a moment to look at your own State map. Also, go to http://earthquake.usgs.gov/hazards/products/conterminous/2014/HazardMap2014_lg.jpg and look at the 2014 National Earthquake Hazard Map. Specifically, look at your State. List three things you notice on the maps about your State. What surprises you about the seismic activity in your State?

Web Resources

Did You Feel It?
https://earthquake.usgs.gov/data/dyfi

U.S. Geological Survey Earthquake Hazards Program
https://earthquake.usgs.gov/

U.S. Geological Survey Earthquakes for Kids
https://earthquake.usgs.gov/learn/kids/

Rock n' on Shakey Ground by U.S. Geological Survey
https://earthquake.usgs.gov/learn/kids/RockShakeyGround.pdf

Advanced National Seismic System
https://earthquake.usgs.gov/monitoring/anss/

National Aeronautics and Space Administration Sonic Booms
https://www.nasa.gov/centers/armstrong/news/FactSheets/FS-016-DFRC.html