1. **Earthquake prediction -** Investigate and find out if anyone has a consistent successful way to predict earthquakes. If not, why were they not successful? Come up with your own idea for predicting earthquakes, and test it. Explain why it did or did not work.
2. **Earthquake myths -** Examine earthquake myths and interview people about these myths to find out what they think. What would be the best way to get rid of myths? Is there any group of people who tend to believe myths more? Older people? Younger people? Other groups?
3. **Seismic waves -** What types of seismic waves are there? What do they look like on a seismogram (recording)? What effects do different kinds of waves have on different kinds of buildings?
4. **Seismograph –** Make a seismograph & explain what it means.
5. **World-wide earthquake hazards -** Which areas around the world are most vulnerable to earthquakes and why? What are the major problems dealing with earthquakes in different areas?
6. **Earthquake risks -** Investigate the current earthquake risks in your area. If there are none currently, have there ever been earthquakes there in the past? Why, and why aren't there any now?
7. **Plate tectonic model -** Build a model that simulates plate motions and their effects.
8. **San Andreas Fault -** Learn about the different segments of the San Andreas Fault. Demonstrate how each segment behaves differently and why.
9. **Tsunamis -** Demonstrate how a tsunami is created.
10. **Fault models -** Make models of different kinds of faults and investigate the tectonic setting of each (where are these types of faults generally found?).
11. **Earthquake-proof buildings -** Try to design a building that can withstand an earthquake. What works? What doesn't work? Why?
12. **Earthquake preparedness -** Find the most effective ways to prepare for an earthquake. Test the effectiveness of different types of earthquake brackets and straps, etc. Determine the safest places to be inside the house, outside, in car, etc. Prepare on earthquake plan for your family, class, school.
13. **Locating an earthquake -** Show how earthquakes are located. Create a fictional story about an earthquake and write a news story with a map showing the epicenter.
14. **Stress & strain -** Make a model to show how stress and strain affect different materials (wood, silly putty, etc.)
15. **Earthquakes & volcanoes -** Investigate how earthquakes and volcanoes are related.
16. **Magnitude & intensity -** Show the difference between magnitude and intensity. What controls the magnitude of an earthquake? What affects the shaking intensity?
17. **Earthquakes on other planets -** Do earthquakes occur on other planets? Which ones? Why or why not?
18. **After effects of earthquakes** – Explore some of the after effects of earthquakes, what should people look out for after an earthquake occurs?
19. **World’s worst earthquakes** – Look into 5 of the worlds deadliest/most destructive earthquakes and talk about the damage caused by them.
20. **Other ideas to brainstorm -** Interior of the earth, earthquakes & roads, earthquakes & buildings, earthquakes and the Eastern US, “Ring of Fire”. (IF YOU CHOOSE THIS OPTION YOU **MUST** COME TO ME AND HAVE YOUR TOPIC **APPROVED!**)

Requirements for Assignment:

1. You can make a poster, video, PowerPoint, essay, whatever you choose as long as you have at least 3 paragraphs (5 sentences in a paragraph) worth of material or an explanation to the information you found.
   1. Must use proper grammar, and complete sentences.
   2. Must be typed or NEATLY written in pen. If I cannot read it I will not grade it.
2. This paper MUST be turned in with assignment and have the topic you chose highlighted or circled.
3. You must cite any sources you use. Wikipedia is NOT an acceptable source. **Two sources are required.**
4. LINED NOTEBOOK PAPER IS NOT ACCEPTABLE TO USE.
5. This assignment is due \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. No exceptions to this due date will be made.

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