Earthquakes research questions and assignments

1. What are earthquakes?
2. Explain the Elastic Rebound Theory.
3. Define focus and epicenter as it pertains to an earthquake.
4. Draw a cross section of the Earth and label the fault, focus, and epicenter.
5. Explain the difference between a seismograph vs a seismogram.
6. Drew and label a picture of a seismogram.
7. Where do most earthquakes occur and why? What type of plate boundaries are mostly associated with these earthquakes?
8. Name the two types of seismic waves?
9. Name and describe two types of body waves?
10. What are surface waves?
11. Draw a picture of the layers of the earth and show how seismic waves travel through the different layers. Based on your drawing explain why P waves are faster than s waves.
12. Explain each of the following as it pertains to earthquakes: Richter Scale, Modified Mercalli Scale, and Moment Magnitude scale. Which one is used today to measure earthquakes?

After you finish the questions above, please pic one of the following assignment to complete.

1. Design the front page of the **Charlotte Observer** with an article about earthquakes. The article should include two or three interviews from fictional characters. Must have a title, be clear, understandable, use descriptive words and have at least 1 picture.
2. Create a **brochure** earthquakes. Each panel must have information and at least one picture that relates to the topic. Attractive neat layout, correct spelling, colorful, folded with important points highlighted.
3. Create a test (with the answer key) that has a mixture of multiple choice, matching, fill in the blank, and short answer questions.
4. Write a creative short story about earthquakes (use the information you research as a guide to include important information about earthquakes).