1. What is the most likely geologic hazard in your part of the country? Is there more than one, if so what are they?

2. What are the three types of plate boundaries?

3. What tectonic plate are you currently on? Where is the nearest plate boundary, and what kind of boundary is it?

4. What three physical properties differentiate oceanic crust from continental crust?

5. Define the lithosphere and asthenosphere? How are they different?

6. What is the difference between a rock and a mineral?

7. What are the three main constituents of an atom? Draw a picture of an atom with these 3 particles.

8. Name the 2 elements in halite (table salt) ___________and ___________. What bonding type joins the halite elements?

9. Draw a picture of a silicon-oxygen tetrahedron. What is its chemical formula?

10. Identify the 3 minerals below (from the mineral boxes in the back of class).

<table>
<thead>
<tr>
<th>#</th>
<th>Mineral Name</th>
<th>Streak</th>
<th>Hardness</th>
<th>Luster</th>
<th>Cleavage</th>
<th>Density</th>
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</thead>
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<td>#5.</td>
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</tbody>
</table>
11. How would you distinguish, on the basis of minerals present, among a granite, gabbro, and diorite? What is the typical grain size of each of these rocks (Course, medium, or fine grained)? (Hint: Look at the chart for intrusive igneous rocks that you sketched for homework)

12. Will magma at an oceanic spreading ridge melt at the same temperature as in the continental crust? Why or why not?

13. Describe 3 processes that mechanically weather rocks.

14. What is the rock cycle? Describe how sedimentary rocks are formed in the rock cycle?

15. Name 3 ways that rocks can melt in the Earth’s interior.

16. What is a foliated metamorphic rock? Give a few examples.

17. A schist that developed in a high-pressure, low-temperature environment likely formed in:
   a. the lower part of the continental crust
   b. a subduction zone
   c. mid-oceanic ridge
   d. near a contact with a magma body

18. Name the 3 arguments (and observations) used to argue for the theory of Plate Tectonics. Which observations finally caused scientists to accept the theory?

19. How old is the Earth? How do we know this?

20. If you found a sedimentary rock on the ground embedded with very large and angular rock fragments what could you determine about it’s history of formation and where it may have come from?