

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**CASCADIA ZONE: WHY IS THE PACIFIC NORTHWEST A GEOLOGICAL HOTSPOT?**

1. What type of tectonic plate boundary do we have?
2. What is special about the “Juan De Fuca” Plate?
3. According to scientists, how did our cascade mountains form?
4. Based on the data table, predict which Washington/Oregon volcano(s) besides Mt. St. Helens is most likely to erupt next.
5. Based on the most recent earthquakes of the Cascade volcanoes, predict which volcano other than Mt. St. Helens, will erupt next.
6. Over the last year, how do the numbers of earthquakes at your predicted volcano compare to the number of earthquakes at Mt. St. Helens? Does this change your prediction? Why, why not?
7. What is the closest volcano to us?

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8. How often does it erupt according to its geological record show?
9. What is special about the last time it erupted?
10. Why is this volcano's eruption associated with flooding?
11. What would cause flooding from a nearby volcanic eruption?
12. Should the people of the Pacific Northwest be required to prepare for geological disasters? Why/Why not?
13. How are volcanoes, earthquakes and tsunamis evidence of slow and large scale motion of the Earth's plates?

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