**Intro to Plate Tectonics – Layers of the Earth HW**

**Directions:** Address the following prompts on your own paper. Doing good work here means that your big project later will go very well. Being lazy here means that your teacher will never, *ever* buy tacos for you.

Use these websites as resources

Website A: <http://eqseis.geosc.psu.edu/~cammon/HTML/Classes/IntroQuakes/Notes/plate_tect01.html>

Website B: “Layers of the Earth” PPT attachment provided by your teacher

Website C: <http://en.wikipedia.org/wiki/Crust_%28geology%29>

Website D: <http://pubs.usgs.gov/gip/interior/>

 **Prompts you should fully answer:**

1. Using Website A, find the section, “What Is A Plate?”. Meticulously copy the small diagram from this section. It should include the following:

* crust (two kinds)
* mantle
* lithosphere (the plate)
* asthenosphere

2. Use Website B, the slideshow. What are the two main ways of *classifying* the layers of the Earth? (Do we classify based on color? Do we classify based on taste?)

3. Use Website C, Wikipedia. What are *several* main differences between continental crust and oceanic crust? (Pay special attention to what composes them.)

4. Use Website D, from the USGS.

* According to this site, how deep is the deepest hole ever dug?
* What section of the Earth does this deep hole reach?
* Even though we can’t dig to the core, what evidence can we use to let us know the core is probably both liquid (outer) and solid (inner)?

5. Use any of these websites. What *exactly* is the “plate” in “plate tectonics”? NOTE: GET THIS RIGHT THE FIRST TIME YOU ANSWER IT.

6. Answer the questions in the resources column related to your field and specific to the region your group chose in class. Most resource columns have two boxes (pick one box to fully answer and cite your sources).

7. Include a draft of what your final product might look like (model, video, r. paper, poster, physical model).