

**Plate Tectonics PREtest**

1. List the 3 main layers of the Earth. What makes up each layer (what elements)?

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

**Performance Tasks**

**Q1** Make a TREE, BRACE or BRIDGE map that shows the 3 main layers of the earth ---include the most common elements found in each layer.

**OR** Make a multimedia presentation that explains what the earth's layers are made of (what elements)

**OR** Watch Brainpop: **Earth's Structure**, then take the quiz (print the results **or** write the correct answers on the back of this sheet).

2. List the 3 main layers of the Earth in order:

(i). Hottest to coldest

(ii). Least dense to most dense

(iii). Thinnest to thickest

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

**Q2** Create a 3D model of the earth and include information about the temperature and density of each layer.---will get extra points

**OR** List the layers of the earth from the coldest to the hottest, least dense to the most dense, and the thinnest to the thickest.

Temperature 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

Density 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

Thickness 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

3. What are the two types of **crust**? Which one is more dense? Which one is thicker? What is the main type of rock that makes up each?

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

**Q3** Make a TREE map that shows the two types of crust (include information about the main type of rock for each, the density, and thickness).

**OR** Make a double bubble that compares and contrasts the two types of earth's crust (include information about the type of rock, density, and thickness).

4. Compare and contrast the outer core and the inner core.

**Q4** Make a double bubble that compares and contrasts the inner and outer core—including the phase (solid or liquid), the temperature, the composition (the elements that make it up).

**OR** Make a tree map about the two layers — including the phase (solid or liquid), the temperature, the composition (the elements that make it up).

5. What is a lithospheric plate, and why does it move? What lithospheric plate do we (in Georgia) live on?

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

**Q5** Make a double bubble to compare and contrast the lithosphere and asthenosphere.

**OR** Draw a diagram that includes the crust and mantle. Label the lithosphere and asthenosphere. Then draw the convection currents in the asthenosphere.

**OR** Make a brochure about the lithospheric plates of the world (colorful and neat). Be sure to label the major plates.

6. What is the continental drift theory, and who wrote about it in the early 1900's. List at least 2 pieces of evidence for continental drift theory. What was the name of the supercontinents millions of years ago (all continents connected)?

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

**Q6** Make an animated interview (like Powtoon or GoAnimate) with the man that came up with the theory of continental drift. Include birthdate, when he died, was he married, etc.

**OR** Write a biography (in your own words) about this man. Include personal information, as well as information about his professional life.

**OR** Make a TREE map that lists and explains **explains** at least 3 pieces of evidence that proves continental drift (do not include sea-floor spreading)

**OR** Make a multimedia project that shows the evidence for continental drift theory (do not include sea-floor spreading)

7. What happens at the mid-ocean ridge?

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

**Q7** Make an illustration (like a comic strip) that shows what happens at the mid-ocean ridge. (can use a website like toondo.com)

**OR** Make a 3D model of the mid-ocean ridge (include the direction of movement for each side) —extra points

**OR** Explain (with a paragraph and a sketch) why the mid-ocean ridge is so important.

8. List the 3 types of tectonic plate boundaries, and describe what happens at each boundary (can use arrows).

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

**Q8** Make a Tree map that lists and describes what happens at each plate boundary.

**OR** Make an illustration (like a comic strip) that shows what happens at each boundary. (can use a website like toondo.com)

**OR** Brainpop: Plate Tectonics (quiz and activity sheet)

Name: \_\_\_\_\_ Class: \_\_\_\_\_

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

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