Names\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Plate Tectonics Model** Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Summative Project) Hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part A** : With a partner design and construct a model of plate tectonics. First choose which kind of boundary you will make. (Divergent, convergent or transform) (Oceanic-oceanic, continental-continental or continental-oceanic) Create a model that most accurately describes a plate boundary. Remember to label everything and your model should include two crusts, landforms that are appropriate for your model, (volcanoes, faults, rift valleys) lithosphere, asthenosphere, core, molten rock, subduction plate (if appropriate) and convection currents.

*Checklist*

\_\_\_ Neat \_\_\_ Landforms

\_\_\_ correctly labeled \_\_\_ Plate boundary

\_\_\_ Lithosphere \_\_\_ Crusts

\_\_\_ Asthenosphere \_\_\_ Arrows describing the direction of the plates

\_\_\_ Inner core \_\_\_ Trench (if appropriate)

\_\_\_ Outer core \_\_\_ Convection current

\_\_\_ Subduction plate (if appropriate) \_\_\_ Mantle

\_\_\_ Class Participation \_\_\_ 2 stamps of approval

**Part B**

Written response: You must write a paragraph describing your model. The paragraph must include a description of your boundary (transform, convergent, divergent) and any identifying characteristics of your model (explain what is created by your boundary), describe what powers tectonic plate movement, and one piece of textual evidence. (5-7 sentences) Underline or highlight your piece of textual evidence.

*\*\*Bonus\*\**

1. *Identify where Earth’s magnetic field is (2 points)*
2. *Add to your model an accurate representation of Earth’s magnetic field. (10-15points)*

**Schedule:** Plan out how you are going to create and complete your model. Assign everyone a job each day, and check mark each step once they are complete. (14 jobs)

Day1 (Monday 11/14): A rough draft and the schedule must be complete and approved by Ms. Murphy

Who will finish for homework \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Stamp of approval) (Name of student)

Day 2 (Tuesday 11/15)

Who will finish for homework \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Day 3 (Wednesday 11/16)

Who will finish for homework \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\*Ms. Murphy will meet with your group on Wednesday or Thursday and check your progress. You will earn another stamp of approval as long as your group is on schedule\*\*

Day 4 (Thursday 11/16) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Stamp of approval)

Who will finish for homework \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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