Earth Science 11 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Blk: \_\_\_\_

**PLATE TECTONICS STUDY CONCEPT MAP**

Your summative assignment is to choose a **location** on Earth you are **personally connected with**, and explain its plate tectonics using a **graphic organizer** *(such as a Concept Map or Mind Map)* to showcase your expert understanding of the theory of Plate Tectonics.

Using your graphic organizer, you will be **sharing** the plate tectonics of your location with other students in small groups. **Use** **diagrams, connecting lines, and colour.**

Include a **Reference List in APA format** on the back of your assignment.

Please consider including the following:

* **The Earth’s Composition**
* Details about the **Crust** (2 types), **Mantle**, **Outer Core**, and **Inner Core**
* **Continental Drift**, evidence for it, and why it wasn’t accepted right away.
* Who was Alfred Wegner?
* **Seafloor Spreading**, evidence for it
* Who was Harry Hess?
* **Process of Convection**
* How has your location been impacted by convection currents?
* **The Theory of Plate Tectonics**
* A tectonic **plates map** of your location
* **Plate Boundaries** 
  + **Convergent** (oceanic-oceanic, oceanic-continental, continental-continental)
  + **Divergent** (in the ocean, on land)
  + **Transform**
* **Features** associated with each plate boundary
* *Mountains, rift valleys, ridges, trenches, island arcs, subduction zones, earthquakes, volcanoes…*
* **How has plate tectonics impacted your location?**

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| --- | --- |
| **Your Location:** | |
| **Your personal connection to this location:** | *Teacher approval:* |
| **Due Date:** | |

**Grading Rubric**

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| --- | --- |
| **Score** | **What it means** |
| 7 | In addition to Score 5 performance, in-depth inferences and applications that go beyond what was taught. Very few errors. |
| 6 | In addition to Score 5 performance, partial success at inferences and applications that go beyond what was taught. |
| 5 | No major errors or omissions regarding any of the information and/or processes (simple or complex) that were ***explicitly*** taught. |
| 4 | No major errors or omissions regarding the simpler details and processes and partial knowledge of the more complex ideas and processes. |
| 3 | No major errors or omissions regarding the simpler details and processes but major errors or omissions regarding the more complex ideas and processes |
| 2 | Partial knowledge of the simpler details and processes but major errors or omissions regarding the more complex ideas and processes |
| 1.0 | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes |
| 0.5 | With help, a partial understanding of some of the simpler details and processes but not the more complex ideas and processes |
| 0.0 | Even with help, no understanding or skill demonstrated |

**You will be assessed on the following categories:**

|  |  |
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| **Category** | **Description** |
| **A- Knowledge & Understanding** | * recall, select and use knowledge of scientific facts, concepts and techniques in a variety of familiar and unfamiliar contexts, including those related to First Peoples, the local community and other cultures. |
| **D – Communication & Research** | * create models to describe, construct evidence-based arguments, use appropriate scientific language and representations. * -express and reflect on a variety of perspectives and worldviews. |