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

**Plate Tectonics Art Project**

**BIG IDEA:** Plate Tectonic theory explains the consequences of tectonic plate interactions.

**Task**

 **To create a piece of Art that explains the answer to your Inquiry Question.**

**Part A:** Choose a Topic (from the list below)

**Part B:** Think of an Inquiry Question to Investigate

**Part C:** Research the Answer

**Part D:** Plan and Create Art to Display your Answer

**PART A: TOPIC**

-Choose one or several topics to ask questions about. Indicate your choice below:

* Layers of the Earth
* Crust types:

*Oceanic vs Continental*

* Plate Tectonics
* Continental Drift
* Sea Floor Spreading
* Mid-Ocean Ridge
* Subduction
* Convection in Asthenosphere
* Ridge Push/Slab Pull
* Ring of Fire
* Mountains and Mtn Chains
* Rift Valleys
* Volcanoes and Eruptions
* Earthquakes
* Plate Boundaries

-Convergent boundary:

 C-C *continental-continental*

-Convergent boundary:

 C-O *continental-oceanic*

-Convergent boundary:

 O-O *oceanic-oceanic*

-Divergent boundary:

 *continental crust*

-Divergent boundary:

 *oceanic crust*

-Transform boundary

* Tsunamis
* Ocean Trenches
* Islands
* Island Arcs
* Hot Spots/Mantle Plumes
* Magma/Lava
* Black Smokers
* Hydrothermal Vents
* Rock Types
* Local Sites
* Global Sites
* First Nations Perspective

**PART B: INQUIRY QUESTION**

-Think of an Inquiry Questions to investigate.

 **Inquiry Question** = A specific question that interests you and is challenging.

* Usually a **How...** or **What…** question.
* Cannot be a YES/NO question.
* Cannot be answered in only one sentence.

Example Questions:

* *How do converging plates create a volcano?*
* *How did fossils support Wegener’s idea of Continental Drift?*
* *What is the difference in the speed of seafloor spreading at different mid-ocean ridges?*
* *What determines the intensity of an earthquake?*

***Your Inquiry Question:***

Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher Approval: \_\_\_\_\_\_\_\_\_\_\_

**PART C: RESEARCH**

-**Research** the Answer. **Submit your research with your project.**

* Write your information on separate paper.
* Find information to help answer your question:

 -Definitions of terms, explanations of concepts, ideas and connections…

* Sources should be in APA format on Reference List.

**PART D: ART**

-**Plan** and **Create** **Art** to display your Answer.

* **Cannot be on standard 8-1/2 x11 paper.**
* Can include an informational plaque attached to your Art.
* Must include Inquiry Question.

Art Ideas:

Sculpture – Diorama – 3D Model – Flipbook – Video – Stop Motion – Painting – Collage

Fashion – Performance (song, play, dance, flash mob) – Photography – Game

**My Art Idea:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**My Initial Design:**

**Feedback on Design**:

 -Feedback #1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 -Feedback #2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RUBRIC:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Assessment Criteria | **4**(exceeds expectations) | **3**(meets expectations) | **2**(minimally-meets) | **1**(below expec.) |
| **The Inquiry Question** | Inquiry Question is challenging, interesting to you, open-ended | Inquiry Question is challenging and interesting to you. | Inquiry Question is simple and not of interest to you. | Question is not Inquiry. Yes/No question. |
| **Research** **and Science** | Research is extensive and properly documented in APA format. Science shows deep understanding and is always accurate. | Research is well done and well documented. Science shows understanding and is accurate. | Research is evident and minimally documented.Science shows minimal understanding. | Research is not documented. Science does not show understanding. |
| **The Art** | Art effectively and creatively displays answer completely. Wow!  | Art effectively displays answer completely.Well done!  | Art displays some elements of answer.Keep trying. | Art is not created or does not answer question. ☹ |