Name: Date: Class: 1 2 3 4 5

**Plate Tectonics**

S6D5f. Construct an explanation of how the movement of lithospheric plates, called plate tectonics, can cause major geologic events such as earthquakes and volcanic eruptions. (Clarification statement: Include convergent, divergent, and transform boundaries.)

**ENGAGE:** <https://www.youtube.com/watch?v=Pc9hM08uscM>

What do you THINK caused the earthquakes in Hawaii?

**EXPLORE:** <https://earthquakes.volcanodiscovery.com/>

1. Where are most of the volcanoes located, in relationship to the crustal plates?

1. How do you think volcanoes form?
2. Where are most of the major earthquakes, in relationship to the crustal plates?

1. Where are most of the major mountain ranges, in relationship to the crustal plates?

1. How do you think earthquakes form?

1. What is the relationship between the location of major earthquakes and volcanoes?

**EXPLAIN: Use the following resources below to complete the organizer below.**

Read pages 532 – 533 in the worktext.

<https://www.pbs.org/wgbh/aso/tryit/tectonics/crush.html>

<https://www.docsity.com/en/news/education-2/plate-boundaries-geologic-structures-explained-animated-gifs/>

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| **PLATE BOUNDARY** | **HOW DO THE PLATES MOVE?** | **LANDFORM(s) AND/OR GEOLOGIC EVENT** | **DRAWING** |
| **Convergent**  **Boundaries** |  |  |  |
| **Divergent**  **Boundaries** |  |  |  |
| **Transform**  **Boundaries** |  |  |  |

**EXPAND / EVALUATE:**

Label each diagram with the types of crust. Explain each diagram by including the type of plate boundary, movement, and the role density plays (in the first two diagrams.)

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