**Hot Plates**

**Benchmarks:**

**SC.7.E.6.5: Explore the scientific theory of plate tectonics by describing how the movement of Earth’s crustal plates causes both slow and rapid changes in Earth’s surface, including volcanic eruptions, earthquakes, and mountain building.**

SC.7.E.6.1: Describe the layers of the solid Earth, including the lithosphere, the hot convicting mantle, and the dense metallic liquid and solid cores.

SC.7.E.6.7: Recognize that heat flow and movement of material within Earth causes earthquakes and volcanic eruptions, and creates mountains and ocean basins.

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| **4** | I can **support the claim** that heat flow and movement of material within Earth causes earthquakes and volcanic eruptions, and creates mountains and ocean basins and this is explained in the theory of plate tectonics |
| **3** | I can **explore** the scientific theory of plate tectonics by describing how the movement of Earth's crustal plates causes both slow and rapid changes in Earth's surface, including volcanic eruptions, earthquakes and mountain building. |
| **2** |  I can **define**:\_\_\_lithosphere\_\_\_ convection\_\_\_ mantle\_\_\_ crust\_\_\_ cores | \_\_\_\_ I can **describe** the layers of the solid Earth. including the lithosphere, the hot convicting mantle, and the dense metallic liquid and solid cores \_\_\_\_ I can **explain** the scientific theory of plate tectonic.\_\_\_\_ I can **explain** the movement of the Earth’s crustal plates |
|  |  I can **define**:\_\_\_ Earthquakes\_\_\_ Volcanic Eruptions\_\_\_ Ocean basins\_\_\_ Mountains | \_\_\_\_ I can **identify** Transform boundaries \_\_\_\_ I can **identify** Convergent boundaries\_\_\_\_ I can **identify** Divergent boundaries |
| **1** | With help, students are able to have partial success with 2.0 and/or 3.0 content. |
| **0** | Even with help, students have no success with content. |