Plate Tectonics

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| **Essential Question:** | |
| **Questions:** | **Notes:** |
|  | * Plates are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   How Plates Move   * The theory of plate tectonics states \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * This theory explains the \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_ of the Earth’s plates. * Geologists think that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the mantle is the major cause of plate motion. * As the plates move, they change the Earth’s surface. These changes include \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_   Plate Boundaries   * The edges of earth’s plates meet at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * Faults are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * The North American and Eurasian plates are moving apart at a rate of \_\_\_\_\_\_\_\_\_\_ per year * There are 3 kinds of plate boundaries:  1. Spreading/Divergent Boundaries  * The place where two plates move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * Most occur along the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ where \_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs * When this occurs on land, a deep valley called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forms  1. Colliding/Convergent Boundaries  * The place where two plates \_\_\_\_\_\_\_\_\_\_\_\_\_\_, or \_\_\_\_\_\_\_\_\_\_\_ * The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ determines which plate comes out on top. * 3 types:  1. Two plates made of oceanic crust meet at a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Oceanic plate collides with a continental plate= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Two continental plates collide- neither sink since neither is dense enough to sink very far so \_\_\_\_\_\_\_\_\_\_\_\_ form. 4. Sliding/Transform Boundaries  * A place where two plates \_\_\_\_\_\_\_\_\_\_\_\_ moving in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ * Crust is neither \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Summary:** | |