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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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| **Summary:** |