**PLATE TECTONICS Boundary Tour**

**OBJECTIVE:** What movement occurs at plate boundaries that cause the Earth’s surface to change?

**DIRECTIONS:**We have spent the last week learning about the theory of plate tectonics, sea floor spreading, Earth’s plates, and how they move. It is now time to put it all together! You will create an interactive flowchart that describes the different types of plate boundaries and what happens when they start moving around. You will create this flowchart on your ipad using any app you wish and then submit your final product to your teacher electronically. Each boundary will have very specific requirements so make sure and check that you have all the necessary components. Also, you can always refer back to the example that is provided for you.

**Crustal Tectonic Features Include:**Rift Valley Mid-Ocean Ridge Mountains Trenches   
Earthquakes Volcanic Continental Arc Volcanic Island Arc

**Tectonic Plate Names:**North American Plate South American Plate Caribbean Plate Nazca Plate  
Juan de Fuca Plate Pacific Plate Scotia Plate Cocos Plate  
Antarctica Plate African Plate Arabian Plate Indian Plate  
Australian Plate Eurasian Plate Philippine Plate Pacific Plate

**The following lists the necessary requirements for each slide + a slide format template:  
Note: Graphics = computer generated diagram; Photos = actual photos from a camera**

**Slide 1: Divergent Boundary Title**

* Graphic showing type of movement
* Definition of divergent boundary
* Name two crustal tectonic features that divergent boundaries create
* Find two photos that are created by a divergent boundary (note: animated mid-ocean ridge graphics can be used instead of a photo for one of your examples)
* Name the tectonic plate(s) that are being affected in the photos you are using as examples

**Slide 2: Convergent Boundary Title & Type**

* + Type 1: Ocean – Continental Collision
  + Graphic showing type of movement
  + Definition of Ocean – Continental Collision
  + Name two crustal tectonic features that ocean – continental collisions create
  + Find two photos that are created by an ocean – continental collision
* Name the tectonic plate(s) that are being affected in the photos you are using as examples

**Slide 3: Convergent Boundary Title & Type**

* + Type 2: Ocean – Ocean Collision
  + Graphic showing type of movement
  + Definition of Ocean – Ocean Collision
  + Name two crustal tectonic features that ocean – ocean collisions create
  + Find two photos that are created by an ocean – ocean collision
* Name the tectonic plate(s) that are being affected in the photos you are using as examples

**Slide 4: Convergent Boundary Title & Type**

* + Type 3: Continent – Continent Collision
  + Graphic showing type of movement
  + Definition of Continent – Continent Collision
  + Name two crustal tectonic features that continent – continent collisions create
  + Find two photos that are created by an continent – continent collision
* Name the tectonic plate(s) that are being affected in the photos you are using as examples

**Slide 5: Transform Boundary Title**

* Graphic showing type of movement
* Definition of transform boundary
* Name one crustal tectonic feature that transform boundaries create
* Find one photo that is created by a transform boundary
* Name the tectonic plate(s) that are being affected in the photos you are using as examples

**Slide Template (where to put the items you need to include on your document!)**

|  |  |
| --- | --- |
| Title & Graphic | |
| Definition of boundary type | |
| Crustal Tectonic Features that are formed | |
| Photo Example #1 | Photo Example #2 |
| Name(s) of tectonic plates in picture | Name(s) of tectonic plates in picture |