**Introduction to Plate Tectonics**

**A. Watch the video, then answer the questions below**:(<http://www.teachersdomain.org/asset/ess05_vid_plateintro/>)

1. Is the Earth’s surface stable and stationary now? Do you think it will be stable in the future?

2. What is Pangaea?

3. Do you think that the way continents fit together is a convincing theory for plate tectonics? Why or why not?

4. Is ocean growing in size? Which is shrinking? Which is growing?

5. How did the Himalayans Mountain form?

**B. Fill in the blanks during lecture (Part I):**

1. Lithosphere is broken into sections called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_make up lithosphere, which is the tectonic plates.

3. The plates move around on top of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which is a part of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. The three types of plate movements are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Where the two plates interact is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. There are two types of plates. They are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**PART C ON BACK**

**C. Pick 1 “resource fold-up” from the table. Become an expert on this subject matter. Then, teach your group members and help them fill out the chart. Take turns. When everyone is finished teaching in your group, you should have the chart filled out.**

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| --- | --- | --- | --- | --- | --- |
| **Type of boundary** | **Movement of plates**  *Specify which plates move & which direction it moves* | **What happens during plate movement** | **Land forms or earth movements created & specific examples** | **Drawing/Illustration of plate movement** | **Additional Notes**  **(possible facts to know for test?)** |
| Convergent boundary (O-C) |  |  |  |  |  |
| Convergent boundary (C-C) |  |  |  |  |  |
| Convergent boundary (O-O) |  |  |  |  |  |
| Divergent boundary |  |  |  |  |  |
| Transform boundary |  |  |  |  |  |
| \*\*\*Define **Subduction** & Illustrate\*\*\*  \*\*\*Define Faults\*\*\* | **Definition:**  **Definition:** |  | **Illustration:**  **Illustration:** |  | **Example:**  **Example:** |