Science 7 Earth Sciences – Plate Tectonics Assignment DUE DATE:

Goal:

Graphically understand the concepts of Plate Tectonics.

Outcomes:

1. The student will be able to draw a diagram that illustrates the 3 types of plate boundaries (Divergent, Convergent, and Transform)

2. The student will be able to list the surface features associated with each type of plate boundary.

3. The student will be able to list some locations on the planet of each type of plate boundary.

4. The student will be able to state examples of each type of surface feature (volcanoes, fault lines/earthquake zones, mountains, rift valleys) associated with plate boundaries.

Assignment:

Part A

Using the diagrams in your notebook and textbook (pp 200, 202, 236, 246/7, figure 8.12) and the textbook materials (pp 245 – 247) draw a CROSS-SECTION of the Lithosphere that contains the following:

 1. convergent plate boundary;

 -Oceanic plate being subducted under a continental plate.

 -Volcano, folded mountains

 -Deep sea trench

 2. Mid-Oceanic divergent plate boundary;

 -Ridge

 -Rift, Abyssal plain

 3. Continental divergent plate boundary;

 -Rift valley

 4. Transform boundary (see page 265);

 -Continental

 -Shows (arrows) sideways direction of movement

 -Earthquake zones….

 5. General;

 -Convection currents

 -Lithosphere

 -Subducted plates being “melted” into the Lithosphere

Diagram must be set up in LANDSCAPE format, Must have a border, see marking key!

Part B

In a chart, list 2 examples of each of the following (name and location);

-Volcanoes resulting from plate boundaries (NOT Hawaii)

-Mountain ranges resulting form folding as a result of convergent plate boundaries

-Rift valley.

-4 Countries prone to a lot of earthquakes (not including Canada or the USA)

-1 Canadian province and three American states prone to MANY earthquakes

Marking:

Part A: Diagram

|  |  |  |
| --- | --- | --- |
| **Topic** | **Out of** | **Comments** |
| Neatness (ruler, PENCIL, printing (not writing) | /10 |  |
| Use of COLOUR | /5 |  |
| Name, Date, Class | /3 |  |
| Section 1 complete | /4 |  |
| Section 2 complete | /3 |  |
| Section 3 complete | /2 |  |
| Section 4 complete | /2 |  |
| Section 5 complete | /3 |  |
| Over-all accuracy | /5 |  |

Part B: Chart

|  |  |  |
| --- | --- | --- |
| **Topic** | **Out of** | **Comment** |
| Volcanoes | /4 |  |
| Mountain ranges | /4 |  |
| Rift Valley | /4 |  |
| Countries | /4 |  |
| Provinces | /1 |  |
| American states | /3 |  |
| Neatness (ruler, pencil or computer | /5 |  |
| Spelling | -1 per mistake |  |

**Total: - spelling errors =MARK**