**Plate Tectonics Graphic Organizer**

Name:

The Earth has different layers that have different properties which are important to our understanding of how and why plate tectonics move. As the plates move, they interact with each other causing such natural features as mountains, ocean ridges and volcanoes.

Your job is to create a **graphic organizer** which explains the **layers of Earth**, **plate motion**, and **plate interactions**. Your work should include **labelled** **coloured diagrams** and **explanations** for the **structures** and **processes** involved.

P. 518 – 526 in your textbook is a good resource to help you.

**Diagram Label and Explanation Check List**

Crust

Lithosphere

Mantle

Asthenosphere

Outer core

Inner core

Convection current/mantle convection

Spreading centre – ocean ridge

– rift valley

Ridge push

Slab pull

**Bonus if you can think of how to put all plate interactions onto one big diagram.**

**This assignment will be evaluated on a 4 point scale**

1= insufficient detail included, drawings are inaccurate, missing or incomplete, care and effort not evident

2= satisfactory detail included, some of the criteria are met, missing one or more of the criteria/ some drawings

are incomplete or inaccurate

3= good detail included, meets all criteria; some aspects of the assignment require greater care/detail

4= exceptional detail, thoroughly addresses all the criteria in depth

**This assignment is due next class**.

Subduction

Subduction zone

Density

Trench

Divergent plate boundary

Convergent plate boundary

– 3 types

Magma

Volcanic belt

Volcanic island arc

Transform plate boundary

Transform fault