**Big Idea: How does the movement of Earth’s tectonic plates cause observable changes and effects?**

How forces within our Earth drive the creation of mountains, volcanoes and earthquakes.

Inquiry Project Ideas

1. What does Pangea look like? What clues were used to re-create Pangea?

(topics for further inquiry: Alfred Wegner, fossil records, Pangea…)

1. Where are the Earth’s mountains? Are Volcanoes and Earthquakes located close to each other?

(topics for further inquiry: Earthquakes zones, active and non-active volcanoes, great mountain ranges around the world)

1. What are the properties of the tectonic plates? How do they interact? What geologic features do they produce?

(topics for further inquiry: Plate interactions, convergent, divergent and transformations)

1. Where are Plate boundaries? How do they interact? What are some plate activities bordering British Columbia?

(topics for further inquiry: Convergent🡪Divergent 🡪mountain ranges and trenches)

1. How are seismic waves used to locate the epicenter of an Earthquake? Can the magnitude of an Earth quake be determined from a seismograph? What and how is magnitude determined?

(topics for further inquiry: Earthquakes, magnitude, seismic waves and epicenter)

1. Your own idea for a project- discuss and share with me to get approval

(topics for further inquiry: Earthquakes, magnitude, seismic waves and epicenter)

Of course, some students will find this topic fascinating and may wish to demonstrate their learning of this content in a variety of other ways. You have the freedom to do a project demonstrating the 3 main ideas of this unit, or a design a hands-on project or even a “sway” project from office 365…