**GRADE 11 PBL**

**Earth Science Big Idea:** Plate tectonic theory explains the consequences of tectonic plate interactions.

**Math Big Idea:** Similar shapes and objects have proportional relationships that can be described, measured, and compared.

**Math Big Idea:** Statistical analysisallows us to notice, wonder about, and answer questions about variation.

**Social Studies Big Idea**: Decision making in urban and regional planning requires balancing political, economic, social, and environmental factors

**ELA Big Idea:** Language shapes ideas and influences others.

**Geologists have informed the BC government that there is a substantial likelihood of a major earthquake in BC in the near future.**

1. Research the geological reasons for this conclusion – is it valid? What is the evidence?
2. Your school district is concerned about the safety of the schools should such an event occur. Conduct an analysis of your school building – what could be done to prepare the school, both physically and in terms of human behaviour, for an earthquake.
   1. What are the possible dangers/occurrences?
   2. What safety measures does the school have in place?
   3. Is the building optimized structurally? How do you know? What could be done?
3. Considering financial realities, human behaviour, and geological probabilities, what would you propose to prepare your school for an earthquake?

Present your proposal to the panel of experts (teacher/parent/student rep), including a media campaign to raise awareness of the plan.