**THE BIG ONE!!!**

This is it! The moment we’ve all been waiting for! Your final science project in grade 8 ☺

For this project you will be conducting research on our impending earthquake that you have heard about for most of your lives. You will then take on the role of a **journalist** or **newscaster** and report your findings. This is due by **MONDAY JUNE 18th.**

*Your report must include the following information:*

* The tectonic plates involved, and what type of boundary they form.
* What is the geological history of these tectonic plates,
* Earthquake history
* How often do large earthquakes occur here
* When was the last major earthquake
* When do geologists estimate will be the next major earthquake etc.
* What kind of damage will happen if we experience an earthquake of magnitude 6, 7, 8, or 9+?
* What areas (cities/towns) will be most affected if we experience a major earthquake? ***(\*\*HINT, consider areas like Delta and Richmond)***
* Will a tsunami occur? If so what areas will most likely be affected?

*You are also required to answer the following questions:*

* In planning for the big one, what responsibilities do the following people/groups have:
* Individuals and their families
* Local city or town government officials
* Emergency response personnel
* Provincial and national assistance agencies.

*If you take on the role of a* ***journalist*** *you will submit your findings in the form of a newspaper/magazine article.*

*If you take on the role of a* ***newscaster*** *you will submit your findings in the form of a video.*



**Project Checklist** – Use this checklist as a guide to ensure you are on-track to complete your project.

**June 8th, 2018**

***By the end of today’s class, I have:***

* Decided if I will be a journalist or newscaster. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Identified the tectonic plates involved \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and identified the type of boundary they form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Researched the geological history of these tectonic plates.
	+ Earthquake history
	+ How often do large earthquakes occur here
	+ When was the last major earthquake
	+ When do geologists estimate will be the next major earthquake etc.

**June 12th, 2018**

***By the end of today’s class, I have:***

* Identified what kind of damage will happen if we experience an earthquake of magnitude 6, 7, 8, or 9+.
* Identified what areas (cities/towns) will be most affected if we experience a major earthquake.
* Determined if a tsunami will occur. If so what areas will most likely be affected?

**June 14th, 2018**

***By the end of today’s class, I have:***

* Identified what responsibilities do the following people/groups have in planning for the big one:
	+ Individuals and their families
	+ Local city or town government officials
	+ Emergency response personnel
	+ Provincial and national assistance agencies.

**June 15th-17th, 2018**

***At home I have started to complete my report or video in preparation to submit my project on MONDAY JUNE 18th.***

**June 18th, 2018**

***Last day to work on project. MUST BE HANDED IN BY THE END OF CLASS!!!!!***

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **CRITERIA** | **EMERGING** | **DEVELOPING** | **PROFICIENT** | **EXTENDING** |
| **Diagram/ Representation** | -Poor layout and design.-Organizes ideas in presenting results with limited effectiveness. | -Good layout and design.-Organizes ideas and presenting results with some effectiveness. | -Great layout and design. -Organizes ideas in presenting results with considerable effectiveness. | -Professional layout and design.-Organizes ideas in presenting results with a high degree of effectiveness. |
| **Analyzing** | -Few or no inferences are made-No comprehension or reflection on assignment-Does not evaluate information for accuracy, relevance, and completeness. | Makes some inferences-Comprehends surface level meaning-Evaluated some aspects of the information; may not notice some flaws | -Makes inferences most of the time-Usually comprehends deeper meanings/ connections.-Evaluated information for accuracy, relevance and completeness | -Makes many inferences-Comprehends deeper meanings/ connections-Evaluated information thoroughly for accuracy, relevance and completeness. |
| **Communication** | -Uses creative/ critical thinking processes to create a final product and reflect on their learning with limited effectiveness. | -Uses creative/ critical thinking processes to create final product and to reflect on their learning with some effectiveness. | -Uses creative/ critical thinking processes to create final product and to reflect on their learning with considerable effectiveness. | - Uses creative/ critical thinking processes to create a final product and reflect on their learning with a high degree of effectiveness. |
| **Apply/Innovate** | -Opinions are either not offered or not supported by evidence-Did not gather sufficient relevant information | -Opinions are not well developed, little supporting evidence-Gathered some relevant information, may be partially incomplete | -Has well developed opinions and supporting evidence-Gathered sufficient, relevant information | -Has very well developed opinions and supporting evidence-Gathered highly appropriate relevant information |
| **Sources** | -Has provided 1 source | -Has provided 2 sources | -Has provided 3 sources | -Has provided 4 or more sources |