**\*Due Dates: 11/25/19-11/26/19**

**\*You will be assigned one of these dates to erupt your volcano.**

**\*This assignment is worth 2 100pt TEST grades**

**-One test grade will be awarded for the research report and the other for the construction of the volcano.**

**-The eruption is a FUN element. It will not be factored into your overall grade.**

**Overview:** You and your group are required to conduct research on your assigned volcano. This project has many parts including a research paper, a 3-D model of a volcano, a model of a volcanic eruption, and a presentation. Please adhere to all requirements/guidelines provided below.

**Research Report Guidelines:**

\*Typed up in Times New Roman 12pt font, double-spaced. Include a title page, numbered pages, and headers on report.

**Report must include:**

1. Type of volcano (shield, cinder, composite/stratovolcano), and the name of the volcano. Connect factual information about your assigned volcano to the type of volcano it is classified as.
2. Geographic location of volcano (where is it?). Which tectonic plates have formed the volcano. What is the plate boundary/ movement associated with the formation of the volcano.
3. Name, distance, and population of the nearest major city to the volcano.
4. Date of most recent eruption and date of most destructive eruption. Provide a description of the eruption.
5. Other events associated with the last eruption (earthquakes, floods, mudslides, etc.) Any type of hazard should be included here, so please be thorough.
6. Attach a one page description on the major hazards to humans in the vicinity of this volcano (think about prepping for a future eruption). Speculate on what you would do if you were in charge of minimizing the risk to the population. This should cover solutions, precautionary actions, etc.
7. A reference page with all sources used, which should be attached to your report.

**\*\*\*Final Draft of research report is due Friday 11/15/19\*\*\***

**Volcano Model and Eruption:**

1. You will need to construct a 3-D model representation of your volcano. The model must undergo an eruption as well, which you will demonstrate to the class during your presentation.
2. The model needs to contain durable materials that will last throughout the two work weeks leading up to the eruption due date. Research the construction and eruption process to help you in your design of your volcano.
3. You will need to practice the eruption process at home before your due date, in order to ensure a successful eruption on the actual due date. We will not be able to practice eruptions during class, due to the potential messes associated with them. When we erupt the volcanoes on the 25th and 26th, we will be outside. Dress appropriately for the weather. YOU DO NOT NEED TO WEAR DRESS UNIFORM.
4. Please construct a reasonably sized volcano. We are limited with space, so be conscious of the size of your volcano throughout your entire construction process. We will store these on bookshelves in the classroom, so it needs to be able to fit on one of the shelves.

**Note:** You will also be required to present information on your volcano on your assigned due date. Presentation time should be around 5 minutes. You will be required to explain how you built your volcano model and how you carried out the eruption of your volcano in your presentation. Your group will also need to discuss the research you included in your report above. Everyone needs to participate in the presentation, from speaking to carrying out the eruption. Make sure you practice, practice, practice! It is better to be well-rehearsed and prepared on presentation day ☺

**Resources/Websites to Use for Research:**

<http://www.3dgeography.co.uk/make-volcano-model>

<http://www.volcanolive.com/model.html>

<http://environment.nationalgeographic.com/environment/natural-disasters/volcano-profile/>

<http://www.livescience.com/27295-volcanoes.html>

<https://www.volcanodiscovery.com/erupting_volcanoes.html>

<http://volcanoes.usgs.gov/index.html>

<http://geology.com/volcanoes/>

<http://www.bbc.co.uk/science/earth/natural_disasters/volcano>

You are not limited to the resources listed above. Please feel free to utilize other resources outside of the ones provided.