Volcano Research Project

**Task:** You will pick a volcano from the list below and are required to research that volcano’s history. You will use the checklist and guidelines below to focus your research. You will be responsible for creating an original PowerPoint presentation in school and either a 3- dimensional model or poster outside of school (you may use any free time in school to work on a poster if you decide to do one).

List of Volcanoes

* Mount Vesuvius
* Krakatoa
* Mount St. Helens
* Mount Tambora
* Mauna Loa
* Eyjafjallajokull
* Mount Pelée
* Thera
* Nevado del Ruiz
* Mount Pinatubo

Your PowerPoint will contain the following information:

1. The name of your volcano \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. The geographic location of your volcano (all that apply)

a. Continent or Ocean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Country \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. Geographic coordinates \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. Hemisphere \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e. Tectonic plate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Classification of volcano

a. By frequency of eruption \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. By shape \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. By how it has erupted in the past \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Background information/facts

a. General information, interesting facts, myths, legends \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Description of eruptions \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. Eruption history (how often and when it last erupted) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

d. Description of the area surrounding the volcano ( may include population density, major city, rural, land usage, economics of the area) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e. Identify plates that have interacted to form your volcano. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Hazards/Risks associated with the volcano

a. Identify hazards that have occurred in the past with your volcano or could occur in the

future. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Think about the population density, your volcano’s eruption history, and the area around

your volcano to determine the amount of risk that is associated with your volcano.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Conclusion

a. Based on what you have learned about your volcano, what is your prediction for future

eruptions? Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Be sure to give details to support your conclusion

You will be required to do a PowerPoint

and ONE of the following.

(PowerPoint format is on the next page)

**Poster Format**

The poster is a visual aid to help you present your information to the class.

Requirements:

1. Use a full size poster board. One (1) sheet of poster board will be provided to you.

If you make a mistake you will need to purchase a new sheet.

2. Be creative in the materials you use, but stay within a theme.

3. Include pictures of your volcano.

4. Include a cut-a-way of the structure of a volcano with parts labeled may be the same one used in your PowerPoint.

5. Include information from your PowerPoint. This may be chunked by topic, or bulleted. It does not have to include all of the information, but should give the reader a general description of your volcano.

6. Use correct writing conventions.

**Model Format**

The model is a visual aid to help you present your information to the class.

Requirements:

1. You may not purchase a model kit.

2. Your model should be a replica of your volcano, which means it should be correct in shape. Be creative in your materials and construction.

3. You should include a cut-a-way of the structure of a volcano. You can do this by including a small drawing or you can make one side of your volcano flat and paint the cut-a-way directly on it. The parts of a volcano should be labeled correctly.

4. You should have your information bulleted on index cards or in outline form to aid you during your presentation.

5. You may have your volcano erupt using baking soda and vinegar. No other chemicals of any kind are allowed.

6. Use correct writing conventions on any text included on your model.

PowerPoint Format

Your PowerPoint will be a bulleted outline of the information you want to present to the class. You will use the following format for your presentation:

* The title page
* Table of Contents page-
* Geographic location
* Background information/facts
* Classification of your volcano
* Identify Hazards
* Discuss Risks
* Conclusion
* Resources

PowerPoint Presentation Guidelines

1. Research- before beginning a PowerPoint you should have a topic and then find information about the topic

2. Slides- Your presentation should include the following types of slides

a. Title Slide- Title of your presentation and your name

b. Table of Contents Slide- tells your audience what your presentation is about

c. Content Slides- the number of slides you have depends upon the amount of information you have

d. Closing Slide- wraps up the presentation

e. Reference Slide or Works Cited Slide- this slides informs your audience about your resources (use only when necessary)

3. Making your presentation look “professional”

a. Background should be the same throughout the presentation

b. Background and Font color should be complementary- light color on dark color, not light color on light color

c. Content should be presented using bullets- no paragraphs or complete sentences

d. Limit each slide to no more than seven bullets

e. Limit the number of animations and sounds

f. Font Size- your text should be easily read by your audience

g. Pictures and Clip Art should be consistent with the content of the presentation

4. Before Presentation Day

a. Practice, practice, practice your material. Do not read your PowerPoint to us.

b. Be prepared for me to ask you questions during your presentation.

c. PowerPoint saved on my thumb drive as (your name/ volcano name)

5. Presentation Day.

a. Checklist turned in.

b. Research documentation sheets turned in. Please staple together.

c. Speak loudly, clearly, and look at the audience.

Checklist/Grade Sheet for Volcano Research Project

I have included all of the components in my PowerPoint:

Student Teacher

**Your name (1 point)** \_\_\_\_\_ \_\_\_\_\_

**Slides: (2 pts each)**

-Material is organized \_\_\_\_\_ \_\_\_\_\_

-Bulleted Outline form \_\_\_\_\_ \_\_\_\_\_

-One background used throughout \_\_\_\_\_ \_\_\_\_\_

-Transitions (used at least 1, not over used) \_\_\_\_\_ \_\_\_\_\_

-Photos used in appropriate places \_\_\_\_\_ \_\_\_\_\_

-Diagram of volcano structure \_\_\_\_\_ \_\_\_\_\_

**Media Usage: In PowerPoint or on Poster (1-3pts each)**

-Volcano Diagram \_\_\_\_\_ \_\_\_\_\_

-Pictures used appropriately \_\_\_\_\_ \_\_\_\_\_

-Pictures match the volcano \_\_\_\_\_ \_\_\_\_\_

-Google Map used appropriately \_\_\_\_\_ \_\_\_\_\_

**Content:**

-Volcano Name (1pt) \_\_\_\_\_ \_\_\_\_\_

-Geographic Location (2pts) \_\_\_\_\_ \_\_\_\_\_

-Classification (1-5pts) \_\_\_\_\_ \_\_\_\_\_

-Background Information (1-5pts) \_\_\_\_\_ \_\_\_\_\_

-Hazards associated with volcano (1-5pts) \_\_\_\_\_ \_\_\_\_\_

-Risks associated with surrounding area (1-5pts) \_\_\_\_\_ \_\_\_\_\_

-Conclusion (1-5pts) \_\_\_\_\_ \_\_\_\_\_

**Poster or Model:**

-Neatly done (3 pts) \_\_\_\_\_ \_\_\_\_\_

-Reflects information in presentation (2 pts) \_\_\_\_\_ \_\_\_\_\_

-Used appropriately during presentation (2pts) \_\_\_\_\_ \_\_\_\_\_

**Miscellaneous:**

-Print copy of slideshow in handout

format turned in BEFORE presentation (2pts) \_\_\_\_\_ \_\_\_\_\_

-Effort applied during research phase (8pts) \_\_\_\_\_ \_\_\_\_\_

-Appropriate use of school resources (2pts) \_\_\_\_\_ \_\_\_\_\_

-Resources- 3 Websites (5pts) \_\_\_\_\_ \_\_\_\_\_

**Checklist Point Total** \_\_\_\_\_

Replacement Packet (-5pts if lost) \_\_\_\_\_

**Percentage Score**  \_\_\_\_\_