

Name: _____

Hour: _____

Volcano Project

This is a 2 part project - part 1 is a power point slide show and presentation (done in class), and part 2 is a volcano model (done at home). This is an individual project and students should not be working with anyone on either part.

Part 1: Volcano Power point requirements—make a slide for each below (this part is done in class)

1) Introduction slide -

- Your name and class period.
- The name of your volcano .
- Identify the city and country in which it is located.

2) Description-

- What type of volcano is it (shield, cinder cone or composite/strata)?
- Describe the eruption (explosive or non-explosive).
- Describe the lava or pyroclastic material and include gas content in your description.
- Is your volcano active, dormant, or extinct and what does that mean?

3) Effect on Humans -

- How did the volcano change the atmosphere, hydrosphere, & geosphere?
- List two examples of negative effects the volcano had on humans.
- List two examples of positive effects the volcano had on humans.

4) History-

- Include information about past eruptions or volcanic activity. Include dates, and the damage caused by these past eruptions.

5) Your Choice -

- Include 5 extra facts that you found about your volcano. For example, survival stories, predictions for future eruptions, ancient myths, etc.

*******You must include at least 5 pictures throughout your power point and you must present a slide show to the class.**



Part 2: Volcano Model Requirements (this part is done at home)

- You need to make a volcano model of your assigned volcano. That means if you are assigned a composite volcano, your model needs to resemble and erupt like a composite volcano. If you are assigned a shield volcano, your model needs to resemble and erupt like a shield volcano. Finally if you are assigned a cinder cone volcano, your model needs to resemble and erupt like a cinder cone volcano.

Eruption Requirements:

- The lava flow from your volcano should be accurate to how the lava would flow from your assigned type of volcano (ex: runny, thick, explosive)
 1. Composite - needs to explode pyroclastic material (ash cloud). Ideas for this could be baby power, flour, pancake mix etc.. blown out somehow (straw, air pump etc..). You may also erupt lava if you want to but it is not required for this type of volcano. For the lava you can use baking soda and vinegar.
 2. Shield - shield volcanoes are usually non explosive with syrup like lava. For this type of lava you can add dish soap to the baking soda and vinegar to thicken it.
 3. Cinder cone- eruptions look like "fire fountains" - for this you can use diet coke and mentos.

Safety always comes first:

- You **may not** use anything that needs to be lit on fire or anything that is not allowed in school such as fireworks, sparklers, smoke bombs.
- **No chemicals** for the lava. **If you are using anything other than baking soda and vinegar to make your lava or the examples above for the ash cloud, you need your materials approved by me to make sure they are school appropriate.**

Volcano Power Point Presentation

Name _____

Name of Volcano _____

| Topic | Maximum % | % Earned |
|---|-----------|----------|
| Introduction Slide | 10% | |
| Description | 10% | |
| Effects on Humans | 10% | |
| History | 10% | |
| Extra Information | 10% | |
| 5 pictures | 10% | |
| Volcano model built correctly (composite, shield, or cinder cone) | 20% | |
| Volcano model lava flow is correct (runny, thick, explosive) | 20% | |
| Total Points | 100% | |