



VOLCANO WEBQUEST

Ms. Reynolds 8th Grade Science
White Oak Middle School

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INTRODUCTION

Volcanoes are mountains built by the accumulation of molten rock, or magma, beneath Earth's crust. Sometimes magma is forced to the surface of Earth's crust by pressure from gasses. When it breaks through a crack or vent in Earth's surface, it either shoots into the air or flows down the side of the mountain and is then called lava.

Volcanic eruptions can be either violent and catastrophic or mild and constructive. Both kinds of eruptions can have effects that are harmful or beneficial to living things and the environment.

THE TASK

You are to research a famous volcanic eruption in history and describe the eruption scientifically, explaining the type of eruption and its long-term effects on the environment, as well as its effects on human life. This project is to be done in Microsoft Word and include at least 1 photograph taken from one of the web sites. Your account should include the following:

1. A description of the type of rock fragment blown into the air during the eruption;
2. How the fragments altered the area around the volcano; and

3. What changes in the environment and animal and plant life would occur in the area around the volcano.

RESOURCES

Use the following web sites for information:

<http://csep10.phys.utk.edu/astr161/lect/earth/evidence.html>

<http://volcano.und.nodak.edu/vw.html>

<http://www.geo.mtu.edu/volcanoes/>

http://volcano.und.nodak.edu/vwdocs/frequent_questions/group4_new.html

<http://library.thinkquest.org/17701/high/effects/fxvolc.html>

<http://www.bom.gov.au/info/vaac/>

THE PROCESS

1. You need to have a copy of the bibliography worksheet. To answer the questions given above, you will need your lab journal.
2. You will examine each of the sites on the list of resources and write down some notes about the type of fragment you are describing and its effect on the environment. Examine each site quickly, spending no more than 10 minutes on any one site.
3. Pick a photograph or picture that best visualizes the effect you are describing. Place the cursor on it and right-click it. Save the picture to your document file so that you may insert it in your Word document.
4. Write down the URL of any site where you get information on the bibliography worksheet.
5. Organize your notes into 2 or more paragraphs of 4-5 sentences. Be sure to use complete sentences, and correct grammar and spelling.

CONCLUSION

Your word document will be evaluated using the following criteria:

- 18-20—A 2-3 paragraphs; 3 or more interesting facts beyond providing basic information; 1 or more photographs
- 17-16—B 2 paragraphs; 1-2 interesting facts in addition to basic information; 1 photograph
- 15-14—C 2 paragraphs; basic information; 1 photograph
- 13-12—D 1 paragraph, basic information; 1 photograph
- 11↓ —E Missing any of the above items from D

Resources:

Fronk, RH & Knight, LB. 1994. Earth Science. Holt, Rinehart & Winston. Austin.

National Science Resource Center. 1998. National Academy of Sciences, National Science Resource Center. Carolina Biological Supply Company.

<http://www.carolina.com/>

Dodge, B. A WebQuest about Webquests.

<http://edweb.sdsu.edu/webquest/webquestwebquest-hs.html>

Yoder, MB. 1999. The Student WebQuest.

<http://www.iste.org/L&L/archive/vol26/no7/features/yoder/index.html>

Abilock, A. 2000. Hurricane Web Quest.

<http://asterix.ednet.lsu.edu/~edtech/webquest/canequest.htm>