Earth Web Workout 1 | Volcano Explorer

WEBSITE

http://kids.discovery.com/games/build-play/volcano-explorer

OBJECTIVE

Analyze what happens when a large amount of energy passes through the Earth’s layers and is released as heat.

ASSIGNMENT

Visit the link above and click on the word Enter. Click on the phrase Stop Rotation in the orange box to the right of the globe and compare how many volcanoes are in different parts of the world. Click on Virtual Volcano on the left side of the menu to build your own volcano and watch it erupt! As you create your volcano, answer the questions below.

QUESTIONS

1. Which gas and viscosity settings did you choose? Answers Vary

2. Given the settings you chose, which formation was displayed? Answers Vary

3. Given the settings you chose, where were your volcanoes commonly found? Answers Vary

4. Describe three of the results that were shown after your volcano erupted. Answers Vary

Parents: The link for this activity serves to enhance the information located in the Student Workbook. The website chosen for this assignment provides realistic, current information, while contributing to your student’s knowledge and understanding about the topic.
Earth Web Workout 2 | World of Soil

WEBSITE

http://forces.si.edu/soils/interactive/statesoils/index.html

OBJECTIVE

Investigate the world of soil and learn about the type of soil beneath your feet. Meet soil scientists and discover how they became interested in this fascinating field.

ASSIGNMENT

Visit the link to answer the following questions. For the first part of the exercise, select the state of Nevada on Select a Postcard to learn about its soil by clicking on the left yellow tabs: Note, Where is it?, What’s in it?, What’s so special? And Fun Facts!

QUESTIONS

1. What is the name of the Official State Soil? **Orvada**

2. How many acres does it cover in Northern Nevada? **360,000**

3. Why don’t lime and quartz accumulate in the soil? **Rainwater does not regularly seep this deep.**

4. What kind of animals dig in Nevada soil? **Pigmy Rabbits**

5. Name a fun fact about the Indian Ricegrass? **Grass can survive long droughts and reseeds itself after fires or land is overgrazed.**

Now that you’ve completed this for Nevada, select two states that you would like to learn more about and create your own five questions about the state based on information available on the postcard. Write your questions and answers on a separate sheet of paper.

Source: Smithsonian; Dig It! The Secrets of Soil | © 2014 Resource Action Programs
EXTENDED ACTIVITY

Click on the bottom left corner of the Select a Postcard page to Meet Soil Scientists.

Select three to five scientists from the list. Pretend that you are introducing the scientist to someone new and write a short paragraph about each one that you have chosen to introduce. Try to include the most interesting facts about the scientist that you have learned in their profile!

Scientist 1

Scientist 2

Scientist 3

Scientist 4

Scientist 5

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Earth Web Workout 3 | Efficiency Map

WEBSITE

The contents for this exercise are contained in this document.

OBJECTIVE

Learn to gather information about energy efficiency in the U.S. from a map.

ASSIGNMENT

Use the map and color codes in the key above to answer the following questions. According to this 2013 map created by the American Council for an Energy-Efficient Economy (ACEEE), the States within the U.S. are becoming more efficient.

QUESTIONS

1. Which states lead all others in the number of wind turbines?
   **Texas, Kansas, and Montana**

2. Which states recycle the most?
   **Vermont, New Jersey, and Connecticut**

3. Which states lead all others in generating solar power?
   **Nevada, Arizona, and Hawaii**

4. Which are the top three states that generate hydropower?
   **Oregon, Washington, and New York**

5. Which states lead all others in energy efficiency?
   **California, Minnesota, Maryland, Rhode Island, and Massachusetts**

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Earth Web Workout 4 | Career Link

WEBSITE

http://www.onetonline.org/

OBJECTIVE

Learn about careers and occupations that you may look forward to in the future.

ASSIGNMENT

Visit the link above and to view different careers in the field of science and more! Under Find Occupations, select Green Economy Sector from the drop down menu then choose Green Construction and click Go. Scroll down to click on Landscape Architects to answer the questions using information from the Summary Report page.

QUESTIONS

1. List two Tasks that you think are important for Landscape Architects.

   **Answers Vary**

2. Scroll down to Skills. Why do you think Time Management is listed as a skill?

   **Answers Vary**

3. Scroll down to Wages & Employment. At what rate is this job expected to grow?

   **Answers Vary**

4. Scroll to the bottom of the page. Where else could you go to get more information about this area of employment? **Answers Vary**

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Source: O*NET Online; U.S. Department of Labor | © 2014 Resource Action Programs