

Unit Activities: Minerals

Name:

Block:

Unit Objectives

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|---|---|
| Give examples of mineral uses. | Provide examples of atoms may be arranged within a mineral. |
| Understand what a mineral is. | Classify minerals based on chemical composition. |
| Observe a mineral's properties in order to identify it. | |

Notes

- 1 _____ What is a Mineral?
2 _____ Silicate Minerals

Base Assignments

(underlined assignments are mandatory)

-----Assignment 1: Due / / -----

Choose 3 points

- 3 _____ Book Work: (3 points) read or listen to What is a Mineral on Pp. 77-83 and complete study guide 4-1.
4 _____ Mineral Survey: (3 points) find 10 objects from around your house that contain minerals. On a sheet of paper write the name of the object and minerals found in it. Use the text, internet, or other resources to find out the object's minerals.
5 _____ Video: Geologist's Notebook: What Exactly are Minerals? (3 points) watch the video and complete the accompanying worksheet. The video can be accessed online at www.unitedstreaming.com or by following the link on the course web site. Type in the username newpaltzhigh and password streaming and search for geologist's notebook.
6 _____ Web Site Activity: (3 points) go to the Mineral Unit on the class web site and follow the "How Do Crystals Grow?" link. Complete the questions found on the worksheet.

-----Assignment 2: Due / / -----

5 points

- 7 _____ Lab: Mineral Identification

-----Assignment 3: Due / / -----

Choose 5 points

- 8 _____ Book Work: (5 points) read or listen to Identifying Minerals on Pp. 84-91 and complete study guide 4-2.
9 _____ Flash Cards: (5 points) create flash cards using the following words- mineral, cleavage, luster, hardness, streak, silica tetrahedral, density, fracture, specific gravity. The flash cards should be created out of index cards and include the word and definition on one side and a neat color drawing or diagram on the other side of the card.
10 _____ Glencoe On-line Practice Quiz: (5 points) Go to the Mineral Unit on the class web site and follow the "Take a Mineral Quiz" link. When you have answered all questions correctly print out the final page which shows your results.
11 _____ Artwork-Poster: My Favorite Mineral: (5 points) create a poster of your favorite mineral. Make sure you include pictures, information, and diagrams about its appearance, properties, uses, mineral group, and atomic structure.

-----Assignment 4: Due / / -----

- 12 _____ Using Density

Problem Solving Lab

- 16 _____ Lab: Mineral Density: (10 points)

Thematic Assignment

- 17 _____ My Carbon Footprint: (3 points) go to the Mineral Unit on the class web site and follow the "My Carbon Footprint" link. Using your parents as an information resource complete the required web pages. Print out each of the 4 "emissions" worksheets then write out 3 suggestions for how your family might reduce its carbon footprint.