

Unit Activities: Earth Systems

Name:

Unit Objectives

Know the characteristics of earth's layers.

Calculate and appreciate the relative thickness of the layers.

Recognize processes that cause layers to exchange matter or energy.

Understand why the earth is layered.

Notes

Earth Layers

Using the Earth Science Reference Tables

Earth Systems

Base Assignments

(underlined assignments are mandatory)

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

1 _____ Earth Science A to Z: (3 points) write words that you believe are related to earth science that begins with each letter of the alphabet.

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

Choose 3 points

2 _____ Book Work: (3 points) read Earth Systems on Pp. 7-9 and on P. 10 complete questions 4,5, and 6.

3 _____ Book Work: (3 points) read Atmospheric Basics on Pp. 271-274 and complete study guide 11-1.

4 _____ Poster: (3 points) create a poster that shows one of the earth's layers. Be sure it includes information about its composition, density, thickness, and important processes that occur there. Neatness counts!

5 _____ Flash Cards: (3 points) create flash cards using the following words- lithosphere, crust, mantle, inner core, outer core, atmosphere, hydrosphere, troposphere, thermosphere, stratosphere, mesosphere, aesthenosphere, geosphere. You must include the word and definition on one side and a neat color diagram on the other.

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

6 _____ Worksheet- Atmospheric and Elevation: (3 points)

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

7 _____ Tracking Hurricanes: (5 points-lab)

-----Assignment 5: Due / / -----

8 _____ Worksheet- Earth's Interior: (3 points)

-----Assignment 6: Due / / -----

Choose 3 points

9 _____ Concept Map: (3 points) create a map using the following words- lithosphere, crust, mantle, core, atmosphere, hydrosphere, gas, solid, liquid, water, rock. You may do this on a sheet of paper or use the program "Inspiration".

10 _____ Earthweek: (3 points) go to the Earth Systems Unit on the class web site and follow the Earthweek link and download "This Week's" map. Create a flow chart for 5 of the articles following the same format from the lecture on Earth Systems.

11 _____ Earth Science Picture: (3 points) take a picture, find a picture, or draw a picture that includes 4 of the Earth's Systems. Label each system that is represented and give 2 examples of how matter or energy is being exchanged between these systems.

12 _____ Web Site Activity: (3 points each) go to the Earth Systems Unit on the class web site and follow the "How Are Earth's Spheres Interacting" or "How Do Interactions Among Earth's Spheres Vary Regionally?" links Choose only 1 of these. Complete the questions found on the worksheet.

Problem Solving Lab

-----Due / / -----

12 _____ Lab: Why Does the Earth Have Layers: (10 points)