

Name: \_\_\_\_\_  
Mr. Willis  
Conceptual Physics: \_\_\_\_\_  
Date: \_\_\_\_\_

Unit X  
Geophysics  
Need extra help?  
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## Portfolio Directions and Unit Syllabus

**Objective:** Assemble the assignments for the unit into a booklet. Then use the booklet to complete review questions and prepare for the test.

The following items should be put in the following order in the portfolio:

- \_\_\_ Unit Syllabus and Portfolio Directions (this sheet)
- \_\_\_ Vocabulary \_\_\_\_\_
- \_\_\_ Classwork/Daily Log \_\_\_\_\_
- \_\_\_ Video: Geology of the Earth \_\_\_\_\_
- \_\_\_ Reading 22.1, 22.4; 23.2 & 23.5 \_\_\_\_\_
- \_\_\_ Concept Mapping \_\_\_\_\_
- \_\_\_ Convection Lab \_\_\_\_\_
- \_\_\_ The Rock Cycle \_\_\_\_\_
- \_\_\_ Missouri Caves, Karst & Springs (Cloze Exercise) \_\_\_\_\_
- \_\_\_ Weathering Processes \_\_\_\_\_
- \_\_\_ Unit X Study Guide \_\_\_\_\_

### Portfolio Grade

- cover (out of 5) \_\_\_\_\_ (Neatness, effort, and color are important.)
- objectives (out of 5) \_\_\_\_\_
- concepts (out of 5) \_\_\_\_\_ (You may use words, symbols, diagrams on each.)
- contents (out of 5) \_\_\_\_\_ (All assignments must be included and in order.)
- total (out of 20) \_\_\_\_\_

### Test Grade

\_\_\_\_\_

### The Front Cover

Write the unit title on the cover. "Unit X – Geophysics"  
Decorate the front cover with drawings of concepts from the chapter.

### The Inside Front Cover

- Write "Objectives" at the top of the page. List the following unit objectives:
- Create a model of the Earth depicting the three main layers.
- Explain the interaction between the lithosphere and the asthenosphere.
- Describe convection currents and their activity in the Earth's mantle.
- Use the rock cycle to explain the different ages of various rocks.
- Illustrate Missouri's topographic features.
- Describe how caves are formed.
- Explain how the many caves in Missouri affect the use of land in Missouri.
- Describe how stalagmites and stalactites form in caves.
- Describe the effects of the various types of weathering and erosion.

### Inside Back Cover

Write "Concepts" at the top of the page. Divide the page into nine equal squares (like tic tac toe).  
Explain, in words or pictures, the answers to the unit objectives.

**Back Cover** Write your name – last name, first name and class in the lower right hand corner.