

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

Unit XI  
Meteorology  
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# XI

## 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:

If the item is an activity without a worksheet then write a short description of the activity in the portfolio.

Portfolio Directions and Unit Syllabus (this sheet)	_____
Vocabulary	_____
Video: Understanding Weather Part I	_____
Reading Chapter 24, Sec 1, 3, 4 & 7	_____
Understanding Isobars (incl. 2 maps)	_____
Ocean and Climate – The Odd Couple	_____
Creating an Isothermal Map	_____
Origins of Wind and Pressure	_____
Clouds and Precipitation	_____
Unit XI Study Guide	_____

### Portfolio Grade

cover	(out of 5)	_____	(Neatness, effort, and color are important.)
objectives	(out of 5)	_____	(Neatness and Completeness.)
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 XI - Meteorology"

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:

Be able describe the motion of high and low pressure systems.

Predict the weather in a given area using an isobar map.

Explain how the transfer of energy is responsible for weather systems.

Understand what two factors cause the wind.

Be able to describe what causes high and low pressure systems.

Know why the direction of the wind is different at different latitudes.

Know the two conditions that cause clouds to form.

Be able to describe the four steps of the hydrologic cycle.

Understand the origin of the different types of precipitation.

### Inside Back Cover

Write "Concepts" at the top of the page. Divide the page into nine squares.

Explain the answers to the unit objectives with words and diagrams.

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