

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

Unit I  
Introduction to Conceptual Physics  
Need extra help?  
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# I

## Unit Syllabus and Portfolio Directions

**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 \_\_\_\_\_
- \_\_\_ Reading Assignment Chapter 1 – 1-10 \_\_\_\_\_
- \_\_\_ Reading Summary and Worksheet \_\_\_\_\_
- \_\_\_ Video: Scientific Method/Metric Measurement \_\_\_\_\_
- \_\_\_ My Measurer Activity \_\_\_\_\_
- \_\_\_ Metric Conversion Worksheet \_\_\_\_\_
- \_\_\_ Penny Lab \_\_\_\_\_
- \_\_\_ Creating and Interpreting Graphs \_\_\_\_\_
- \_\_\_ Graphing \_\_\_\_\_
- \_\_\_ Unit Review \_\_\_\_\_

### 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 I – Introduction to Conceptual Physics"  
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 to explain why there are standard units.
- Know the basic metric prefixes and units.
- Be able to determine the volume of a cube or rectangular solid.
- Know the three types of graphs.
- Given a data table be able to plot a line graph.
- Given mass and volume, be able to determine density.
- Given a ruler be able to measure the length of an object.
- Given length and width be able to determine the area.
- Given length, width and height be able to determine volume.

### 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.