

Name: _____
Mr. Willis
Conceptual Physics: _____
Date: _____

Unit VI
Thermal Energy and Heat
Need extra help?
Check out <http://www.bayhicoach.com>

VI

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:

- ___ Portfolio Directions and Unit Syllabus (this sheet)
- ___ Vocabulary _____
- ___ Classwork/Daily Log _____
- ___ Video: Exploring Heat _____
- ___ Reading Assignment Chapter 16 _____
- ___ Calculating with Specific Heat _____
- ___ The Coal Chain _____
- ___ Heat Transfer Activity _____
- ___ Heat Loss Activity _____
- ___ Green Architecture _____
- ___ The Great Energy Debate _____
- ___ 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 VI – Thermal Energy and Heat"
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:

- Define heat and explain its importance to life.
- Know how to read energy bills and determine the fuel cost.
- Know how the degree days vary throughout the year.
- Be able to describe the steps in the coal chain.
- Know the three ways that heat can be transferred.
- Know the steps that we used to determine heat loss from this classroom.
- Describe three ways that energy is lost from a home and how to prevent energy loss.
- Be able to list the major sources of energy.
- Identify advantages and disadvantages of the major sources of energy.

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.