

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

Unit VIII
Electromagnetic Spectrum & Light
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Check out <http://www.bayhicoach.com>

VIII

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 (Quiz) _____
- ___ Video: EMR Fundamentals _____
- ___ Reading Chapter 18 Sections 1, 2, 3, 4 & 5 (Counts as 2) _____
- ___ Calculating Wavelength & Frequency _____
- ___ EMR Spectrum Computer Activity _____
- ___ What's the Frequency ROY G BIV? _____
- ___ Cosmic Rays to Fight Terror _____
- ___ Mixing Colored Lights _____
- ___ Predicting Spectra _____
- ___ 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 VIII – Electromagnetic Spectrum & Light"
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 describe electromagnetic waves.
- Know the difference between mechanical waves and electromagnetic waves.
- Know how to model the electromagnetic spectrum.
- Describe the differences between the categories assigned to different electromagnetic waves.
- Be able to relate wave frequency with wavelength.
- Be able to relate wave frequency with wave intensity.
- Describe the uses for various electromagnetic waves.
- Identify potential future uses for electromagnetic waves.
- Be able to state how visible light is a model for the entire electromagnetic spectrum.

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.