

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

Unit XII
The Universe
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XII

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: Astronomy Discoveries _____
- ___ Earth/Moon Relationship Activity _____
- ___ Sun, Moon & Seasons Activity _____
- ___ Video: Black Holes _____
- ___ Black Hole Reading Activity _____
- ___ Zodiac Activity _____
- ___ 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 XII – The Universe"

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 the difference between geocentric and heliocentric.

Be able to discuss the concepts of relativity (how things are related to one another)

Be able to describe what causes an eclipse.

Be able to describe the phases of the moon from the position of the Earth, Sun and Moon.

Describe the phenomena that have contributed to our system of time – day, month, year.

Describe the process by which a black hole is formed.

Know how seasons are related to the tilt of the Earth.

Know how the tropics are related to the ecliptic and seasonal changes.

Explain the expansion of the universe in terms of acceleration away from the Milky Way galaxy.

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.