
Conceptual Astronomy 1 Syllabus

I. About Science

- A. Lesson 1-1: The Cake Baking Activity
- B. Lesson 1-2: Lecture Notes on the Nature of Science and Experimentation
- C. Lesson 1-3: The Horoscope Lab.

II. The Sun

- A. Lesson 2-1: The tangent function
- B. Lesson 2-2: Altitude
- C. Lesson 2-3: Azimuth
- D. Lesson 2-4: The Analemma
- E. Lesson 2-5: Sundials
- F. Lesson 2-6: The Reason for the Seasons
- G. Lesson 2-7: Structure and Appearance of the Sun
- H. Lesson 2-8: The Age of the Sun

III. The Moon

- A. Lesson 3-1: Observing the Moon
- B. Lesson 3-2: Tides
- C. Lesson 3-3: Looking at the Surface of the Moon
- D. Lesson 3-4: Analyzing Lunar Surface Photos

IV. The Night Sky

- A. Lesson 4-1: Introduction to Constellations
- B. Lesson 4-2: Lines in the sky
- C. Lesson 4-3: Light Pollution
- D. Lesson 4-4: Build a Planetarium
- E. Lesson 4-5: Right Ascension and Declination

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V. The Solar System

- A. Lesson 5-1: Is Pluto a Planet?
- B. Lesson 5-2: Planet Observations and Reports
- C. Lesson 5-3: Seeking Patterns
- D. Lesson 5-4: Review and Test on Observing the Planets

VI. Models of the Solar System

- A. Lesson 6-1: Explaining the Mysteries
- B. Lesson 6-2: History of Solar System Models
- C. Lesson 6-3: Ellipses and Kepler's Laws
- D. Lesson 6-4: Scale Model of the Solar System
- E. Lesson 6-5: Applications of Solar System Models