Chapter 00

* Know the objects measured by the ancients in space
* Know the way we measure celestial coordinates
* Know how we calculate years, months, and days in Astronomy
* Know what synchronous rotation is and what it does
* Know all the phases of the moon and what they are called
* Know the cause of the seasons on Earth and the location of the Earth relative to the Sun during them
* Know how solar and lunar eclipses work
* Know what parallax is and how it is used in Astronomy

Chapter 01

* Know the difference between geocentric and heliocentric models of the universe
* Know what contributions the ancient and renaissance astronomers made to the development of Astronomy
* Know the 3 laws of planetary motion
* Know Newton's Law of Gravity and how it works
* Know that the Sun actually orbits within the solar system as well

Chapter 02

* Know all the different forms of electromagnetic radiation
* Know all the parts of a wave
* Know what diffraction and interference are
* Know about the electric and magnetic fields
* Know the visible portion of the spectrum
* Know what the atmospheric windows are and what they mean
* Know what temperature is and how it is measured
* Know how to convert between temperature measurements
* Know what a blackbody curve is and what it tells us
* Know continuous, emission, and absorption spectra and what they tell us
* Know Bohr's model of the atom and how it explains spectra
* Know the Doppler Effect and how the red shift and blue shift work

Chapter 03

* Know the two types of optical telescopes and how they work
* Know the difference between a Newtonian and Cassegrain telescope
* Know the Hubble telescope and how amazing of an instrument it is
* Know what CCD's, exposure time, and collecting area do to the image produced by a telescope
* Know how the resolving power of a telescope works
* Know what atmospheric blurring, active optics, and adaptive optics do
* Know what radio telescopes are used for
* Know what an inferometer is and how to calculate the resolving power of one
* Know what infrared and ultraviolet telescopes are
* Understand how the many different instuments we use in Astronomy work together to give us information on objects that are trillions and trillions of miles away.