

Astronomy Objectives

Sky Observation and Measurement The student will be able to:	State Standard	Text Pages
1. recognize and apply tools and methods of observing and measuring the sky.	12.6.2	
2. use this knowledge to recognize common celestial objects and to understand celestial motion, celestial orientation, and scale of the universe.		
3. demonstrate an understanding of astronomy from different cultural and historical perspectives.	12.8.3	

Solar System Investigation The student will be able to:	State Standard	Text Pages
1. understand the interaction of celestial bodies within our solar system.		
2. understand past and present methods of space travel and exploration.	12.8.3	

Star Classification & Evolution The student will be able to:	State Standard	Text Pages
1. demonstrate knowledge of characteristics of stars to include size, mass, temperature, spectrum, luminosity, composition, and stellar motion.	12.5.4	
2. demonstrate knowledge of classification of stars and galaxies based on these characteristics.	12.5.4	
3. apply knowledge of matter and energy to an understanding of the life cycle of stars.	12.5.4	

Contemporary Issues in Astronomy The student will be able to:	State Standard	Text Pages
1. apply astronomical knowledge to recognize and discuss issues to include but not limited to cosmic rays, black holes, worm holes, shape of space, gravity waves, quasars, origins, nature of matter and energy.	12.5.4	

Textbook: *Astronomy Today*, 4th edition, Caisson & McMillan, Prentice Hall, 2002