

North Carolina
High School

Grades 9-12

Competency Goal 6: Understanding Earth in the solar system and its position in the universe

Starry Night Lesson Plans	
In order of relevance	
6.01 Analyze the theories of the formation of the universe and the solar system	F3 B1-B2 D1-D3 H1-H3 I1-I3
6.02 Analyze planetary motion and the physical laws that explain that motion	C1-C4 A1-A5 B1-B2 E1-E4
Rotation. Revolution. Apparent diurnal motions of the stars, sun and moon. Effects of the tilt of the earth's axis.	C2 A1-A5 E1-E4
6.03 Examine the sources of stellar energies	F1-F3 G2 G3
Life cycle of stars. Hertzprung - Russell Diagram.	F1-F3 G2 G3
6.04 Assess the spectra generated by stars and our sun as indicators of motion and composition (the Doppler effect)	G2 G1 I3
6.05 Evaluate astromomers' use of various technologies to extend their senses	I1-I3 H1
Optical telescopes. Cameras. Radio telescopes. Spectroscope.	I1-I3 H1