South Carolina Middle School	Starry Night Lesson Plans In order of relevance						
Grade 8							
Standard 8-1: Astronomy: Earth and Space Systems							
Standard 8-4:							
The student will demonstrate an understanding of the characteristics, structure, and predictable motions of celestial bodies. (Earth Science)	All Starry Night lesson plans and computer exercises						
Indicators							
8-4.1 Summarize the characteristics and movements of objects in the solar system (including planets, moons, asteroids, comets, and meteors).	A1-A5	B1-B2	C1-C4	D1-D3	F3	12	
8-4.2 Summarize the characteristics of the surface features of the Sun: photosphere, corona, sunspots, prominences, and solar flares.	F2	F1					
8-4.3 Explain how the surface features of the Sun may affect Earth.	F2						
8-4.4 Explain the motions of Earth and the Moon and the effects of these motions as they orbit the Sun (including day, year, phases of the Moon, eclipses, and tides).	A1	A2	A3	A4	A5	E3	E4
8-4.5 Explain how the tilt of Earth's axis affects the length of the day and the amount of heating on Earth's surface, thus causing the seasons of the year.	A2	E3	E4				
8-4.6 Explain how gravitational forces are influenced by mass and distance.	C2	12					
8-4.7 Explain the effects of gravity on tides and planetary orbits.	A3	C2	12				
8-4.9 Recall the Sun's position in the universe, the shapes and composition of galaxies, and the distance measurement unit (light year) needed to identify star and galaxy locations.	G1	H1-H2	F3	E1	E3		
8-4.10 Compare the purposes of the tools and the technology that scientists use to study space (including various types of telescopes, satellites, space probes, and spectroscopes).	H1-H2	G2	I1-I2	F2			