Connecticut

High School

High School Earth Science (Enrichment Content Standards)

	Starry Night Lesson Plans *In order of relevance*
Earth's Place in the Universe	
Earth-based and space-based astronomy reveal the structure, scale and changes in stars, galaxies and the universe over time.	All Starry Night Lesson Plans
The differences and similarities among the sun, the terrestrial planets and the gas planets may have been established during the formation of the solar system.	F3 B1-B2 C1-C4
Evidence from Earth and moon rocks indicates that the solar system was formed from a nebular cloud of dust and gas approximately 4.6 billion years ago.	F3
Evidence from geological studies of Earth and other planets suggests that the early Earth was very different from Earth today.	C1 D1-D3 F3 F1
The sun is a typical star and is powered by nuclear reactions, primarily the fusion of hydrogen to form helium.	F1 G2 I1-I3
Asteroids and meteorites had a significant role in shaping the surface of planets and their moons and in mass extinctions of life on Earth.	D2 D3
The solar system is located in an outer edge of the disc-shaped Milky Way galaxy, which spans 100,000 light years.	H1
Galaxies are made of billions of stars and comprise most of the visible mass of the universe.	H1-H3
Evidence indicates that all elements with an atomic number greater than that of lithium have been formed by nuclear fusion in stars.	G2 G3
Visual, radio and X-ray telescopes may be used to collect data that reveal those differences in the life cycles of stars.	G2 G3 H1 I1 I3
The "big bang" model suggests that the universe has been expanding for 10 to 20 billion years.	H3 I3
Energy in the Earth System	
Energy enters the Earth system primarily as solar radiation and eventually escapes as heat	F1-F3
The sun is a major source of energy for Earth and other planets.	F1-F3