

**South Carolina**  
High School

**Starry Night Lesson Plans**

*In order of relevance*

**EARTH SCIENCE: Astronomy**

**Standard ES-2:**

Students will demonstrate an understanding of the structure and properties of the universe.

All Starry Night lesson plans and computer exercises

**Indicators**

ES-2.1 Summarize the properties of the solar system that support the theory of its formation along with the planets.

F3 B1-B2 C1-C4 D1-D3 I2

ES-2.2 Identify properties and features of the Moon that make it unique among other moons in the solar system.

A3 C3 A5 A4

ES-2.3 Summarize the evidence that supports the big bang theory and the expansion of the universe (including the red shift of light from distant galaxies and the cosmic background radiation).

H1-H3 I1-I3 G3

ES-2.4 Explain the formation of elements that results from nuclear fusion occurring within stars or supernova explosions.

F1 G2 G3

ES-2.5 Classify stars by using the Hertzsprung-Russell diagram.

G2

ES-2.6 Compare the information obtained through the use of x-ray, radio, and visual (reflecting and refracting) telescopes.

I1-I3 I2 F2 G1-G3

ES-2.7 Summarize the life cycles of stars.

G2 G3 F3

ES-2.8 Explain how gravity and motion affect the formation and shapes of galaxies (including the Milky Way).

H1-H3 G1

ES-2.9 Explain how technology and computer modeling have increased our understanding of the universe.

I1-I3 H1-H3 C1-C4 E1-E4 G3  
Starry Night Computer models and simulations