

U. S. Curriculum Correlations by State

Tennessee

Grades 9, 10, 11, 12
Earth Science

Starry Night Lesson Plans

In order of relevance

Standard Number 1.0 Earth System

Standard: The student will investigate the origin, composition, and structure of the Universe.

1.1 Explore the theories of the origin of the Universe and its vastness.	H1 H2 H3
1.2 Examine the components of the Solar System.	C1-C3 D1-D3 B1-B2
1.3 Examine the Sun, Earth, Moon relationships and their gravitational effects.	A1 A2 A3 A4 A5
1.4 Investigate the exploration of space.	I1-I2 H1-H3 F2 C1-C3
Performance Indicators Level 1: Identify the components of the Universe: galaxies, solar systems, stars, planets, meteors, comets, and asteroids.	B1-B2 C1-C3 D1-D3 E1-E3 F1-F3 G1-G2 H1-H3
Understand the seasons and the phases of the Moon.	A2 A4
Draw the position of the Sun, Earth, and Moon during eclipses and lunar phases.	A4 A5
Predict tidal conditions based on the position of the Earth and Moon.	A3 A4
Investigate the history of space exploration.	I1 I2
Performance Indicators Level 2: Discuss the theories of the origin of the Universe: Big Bang and Oscillating/Pulsating.	H2 H3
Construct a model of our Solar System with emphasis on ration and proportions of both distance and size of planets.	B1 B2 C1
Explain the evolution of a star through all stages of its potential development.	F3 G2
Classify galaxies according to their shapes.	H1 H2
Explore the role of astronomical events in Earth history (e.g., asteroid/meteor impacts, solar flares, and comets).	D1 D2 D3 F2 E1 E2 E3
Investigate the relationship between the length of the day and the inclination and relative position of the Sun to the Earth (seasons).	A2 E3
Describe the relationship between mass and gravity.	C2
Explore the benefits of space technology in our everyday lives.	F2 I1-I2 H1-H3
Performance Indicators Level 3: Compare and contrast Earth to other planets in our Solar System.	C1 C2 C3