

## U. S. Curriculum Correlations by State

### New Jersey

#### Grade 12

**Science Standard 8: All students will gain an understanding of the structure, dynamics, and geophysical systems of the Earth.**

**Science Standard 9: All students will gain an understanding of the origin, evolution, and structure of the Universe.**

#### Strand A- Earth, Moon, Sun System

1. Investigate the Earth, Moon, and Sun as a system and explain how the motion of these bodies results in the phases of the Moon.
2. Explain how the regular and predictable motions of the Earth and Moon produce tides.
3. Explain how the tilt, rotation, and orbital pattern of the Earth relative to the Sun produce seasons and weather patterns.

#### Strand B- Solar System

1. Explain that our Solar System coalesced from a nebular cloud of gas and dust left from exploding stars.

#### Strand C- Stars

1. Describe the physical characteristics, stages of development, and the apparent motions of stars.

#### Strand D- Galaxies and Universe

1. Describe data gathering and observation technologies and explain how they are used to explore the Solar System and beyond.
2. Cite evidence to describe the scientific theory of the origin of the Universe and the current explanation of its evolution.

#### Starry Night Lesson Plans

*In order of relevance*

A4 A5

A3 C2

A2 F1

F3 B1

G2 G1 F3 E1 E3

I1 I2 F2

H3 H1 H2