

## U.S. Curriculum Correlations by State

### Delaware

**Grades 6, 7, 8**  
**Standard 4- Earth in Space**  
**Solar System Models**

1. The Universe is composed of billions of stars. The Sun is a medium size star which is many millions of miles closer to Earth than the next nearest star.

**Starry Night Lesson Plans**  
*In order of relevance*

G1 G3 G4

2. The Solar System forms part of the Milky Way Galaxy, which is one of many galaxies that comprise the Universe. Some of the galaxies are so far away that their light takes billions of years to reach Earth.

G1 G3 G4 B2

3. The nine planets, their respective Moon(s), comets and many asteroids, and meteorites orbit the Sun which is the gravitational center of the Solar System.

B1 B2 C1 C2 C3 D1 D2 D3

4. The apparent shape of the Moon changes dramatically as it moves in its orbit. These shapes, called phases, relate to lunar visibility and the times at which the Moon rises and sets. The Moon produces no light of its own and shines only as a result of sunlight reflected from its surface.

A3 A4 A5

5. The yearly revolution of Earth in its orbit about the Sun and the tilt of Earth on its axis (23.5 degrees) cause the angle at which sunlight strikes the Earth to vary at different locations. This causes differences in the heating of Earth's surface which produce seasonal variations in weather and a variety of climates.

A2

### Interactions in the Solar System

1. Nuclear processes that take place in the Sun continuously convert matter into energy. A small portion of this energy which is intercepted by Earth drives biological, chemical, and physical processes on Earth.

F1 G2

2. The gravitational attraction that exists between all forms of matter holds objects on Earth, causes tides, keeps the Solar System and galaxy together, and controls the movements of the planets in the Solar System.

C2 C1 B1 F3 A3 H1

### Technology and Applications

1. Close up pictures and data received from space probes allow scientists to compare the physical properties of planets (e.g., size, surface features, number of rings) and to speculate about conditions on other planets.

C1 C3 H1