

Florida
Middle School

Starry Night Lesson Plans
In order of relevance

Grade 5
Earth and Space

Standard 1: The student understands the interaction and organization in the Solar System and the universe and how this affects life on Earth. (SC.E.1.2)

Knows the orbit of the Earth is slightly elliptical and the Earth is closest to the Sun in the Northern Hemisphere in winter.	A2			
Knows that the angle that the rays of the Sun strike the surface of the Earth determines the amount of energy received and thus the season of the year.	A2	A1		
Knows the effect of the tilt of the Earth on polar climates.	A2			
Knows the relative positions of the Moon, Earth, and Sun during each of the phases of the Moon.	A4	A3	A5	
Knows that the planets differ in size, characteristics, and composition and that they orbit the Sun in our Solar System.	B1-B2	C1-C4		
Knows the arrangement of the planets and the asteroid belt in our Solar System.	D1-D3	B1-B2	C1-C4	

Grade 6-8
Earth and Space

Standard 1: The student understands the interaction and organization in the solar system and the universe and how this affects life on Earth. (SC.E.1.3)

1. Understands the vast size of our solar system and the relationship of the planets and their satellites.	B1-B2	C1-C4		
2. Knows that available data from various satellite probes show the similarities and differences among planets and their moons in the solar system.	C1	C3	C4	I2
3. Understands that our Sun is one of many stars in our galaxy.	F1	F3	G3	
4. Knows that stars appear to be made of similar chemical elements, although they differ in age, size, temperature, and distance.	G2	G1	G3	

Standard 2: The student recognizes the vastness of the universe and the Earth's place in it. (SC.E.2.3)

1. Knows that thousands of other galaxies appear to have the same elements, forces, and forms of energy found in our solar system.	H1	H2	F3	
--	----	----	----	--

Florida
Middle School (cont'd)

Starry Night Lesson Plans
In order of relevance

Florida Grade 6 specific
Earth and Space

Knows the relationship between tides on Earth and the positions of the Moon, the Sun, and Earth.	A3		
Knows the relative sizes of the planets, Sun, solar system, galaxy, and universe.	B1-B2	C1-C4	H1-H2
Understands the positions of the Earth, Moon, and Sun during a solar eclipse and a lunar eclipse.	A5		
Understands that our Sun is one of many stars in our galaxy.	G1-G4		

Florida Grade 7 specific
Earth and Space

Knows the relative sizes of planets.	B1	C1	
Understands the distances of the planets and the asteroid belt from the Sun are vast.	B2	D1	
Understands the relationship between the phases of the Moon and the positions of the Moon, Earth, and Sun as the Moon revolves around the Earth.	A4		
Understands the revolution and rotation of the Moon relative to the Earth, and knows that the same side of the Moon always faces the Earth.	A3		
Understands that the tilt of the Earth on its axis as it rotates causes seasonal changes.	A2		
Knows characteristics of the inner planets and outer planets.	C1	I2	
Knows basic features of the Moon and the moons of other planets.	A3	C3	
Knows some of the constellations of stars in the sky.	E1-E4		
Knows why stars appear to move across the sky.	A1		
Knows the life cycle of a star.	G2	G3	
Knows the process used to determine the age of a star.	G2		

Florida Grade 8 specific
Earth and Space

Knows that available data from various satellite probes show similarities and differences among planets and their moons in our solar system.	C1	C3	I2
Knows the size, temperature, age, and brightness of the Sun compared to some other stars in the Milky Way Galaxy (for example, white dwarfs, red giants).	F1	G1-G3	
Knows that stars appear to be made of similar chemical elements, although they differ in age, size, temperature, and distance.	G2		
Knows that thousands of other galaxies appear to have the same elements, forces, and forms of energy found in our solar system.	F3	G1-G3	H1 H2