U.S. Curriculum Correlations by State

Louisiana

Grades 5 **Earth in the Solar System**	**Starry Night Lesson Plans** *In order of relevance*
(ESS-M-C1) Identify the physical characteristics of the Sun.	F1 F2 F3
(ESS-M-C1) Describe the significance of Polaris as the North Star.	E1 E2
(ESS-M-C1) Explain why the Moon, Sun, and stars appear to move from east to west across the sky.	A1 A4 A5
(ESS-M-C2) Differentiate among moons, asteroids, comets, meteroids, meteors, and meteorites.	C3 D1 D2 D3
(ESS-M-C2) Describe the characteristics of the inner and outer planets.	C1
(ESS-M-C4) Explain rotation and revolution by using models or illustrations.	A1 A2 A3 E3
(ESS-M-C5) Identify Earth's position in the Solar System.	B1 B2 C1
(ESS-M-C8) Identify and explain advances in technology that have enabled the exploration of space.	H1 F1 F2

U.S. Curriculum Correlations by State

Louisiana Continued

Grade 8
Earth in the Solar System

	Starry Night Lesson Plans *In order of relevance*
(ESS-M-C1) Describe the life cycle of a star and predict the next likely stage of the Sun.	F3 G2
(ESS-M-C1) Use a Hertzprung-Russell diagram and other data to compare the approximate mass, size, luminosity, temperature, structure, and composition of the Sun to other stars.	G2
(ESS-M-C2) Use data to compare the planets in terms of orbit, size, composition, density, rotation, revolution, and atmosphere.	B1 B2 C1 C2
(ESS-M-C3) Relate Newton's laws of gravity to the motions of celestial bodies and objects on Earth.	C2
(ESS-M-C4) Identify and illustrate the relative positions of Earth, the Moon, and the Sun during eclipses and phases of the Moon.	A4 A5
(ESS-M-C4) Describe the effects of the Moon on tides.	A3
(ESS-M-C5) Interpret a scale model of the Solar System.	B2 B1
(ESS-M-C6) Describe how unequal heating of Earth's surface affects movement of air masses and water in the atmosphere and hydrosphere.	A2
(ESS-M-C7) Explain how seasonal changes are caused by the tilt of Earth as it rotates on its axis and revolves around the Sun.	A2
(ESS-M-C7) Illustrate and explain how the angle at which sunlight strikes Earth produces changes in the seasons and length of daylight.	A2 A1
(ESS-M-C7) Compare the relative distances from Earth to the Sun on the first day of summer and the first day of winter.	A2
(ESS-M-C8) Communicate ways that information from space exploration and technological research have advanced understanding about Earth, the Solar System, and the Universe.	F1 F2 G1 G2 G3 G4 H1
(ESS-M-C8) Identify practical applications of technological advances resulting from space exploration and scientific and technological research.	F2 H1