

Texas
Middle School

Starry Night Lesson Plans
In order of relevance

Texas Grade 5

§112.7. Science

(2) As students learn science skills, they identify components of the solar system including the Sun, planets, Moon, and asteroids and learn how seasons and the length of the day are caused by the tilt and rotation of the Earth as it orbits the Sun.

A1-A5 B1-B2 C1-C4 D1-D3

(6) The student knows that some change occurs in cycles. The student is expected to:

A1-A5 E1-E4

(A) Identify events and describe changes that occur on a regular basis such as in daily, weekly, lunar, and seasonal cycles;

A1-A5 E3 E4

(12) The student knows that the natural world includes earth materials and objects in the sky. The student is expected to:

B1-B2 C1-C3 F3 G3

(C) Identify the physical characteristics of the Earth and compare them to the physical characteristics of the moon; and

A3 C1 C3

(D) Identify gravity as the force that keeps planets in orbit around the Sun and the moon in orbit around the Earth.

B1 C2 F3 G3

Texas Grade 6

112.22. Science

(2) As students learn science skills, they identify components of the solar system including the Sun, planets, Moon, and asteroids and learn how seasons and the length of the day are caused by the tilt and rotation of the Earth as it orbits the Sun.

A1-A5 B1-B2 C1-C4 D1-D3 E3 E4

(13) Science concepts. The student knows components of our solar system. The student is expected to:

B1-B2 C1-C3 F3

(A) Identify characteristics of objects in our solar system including the Sun, planets, meteorites, comets, asteroids, and moons; and

B1-B2 C1-C4 D1-D3 F1-F3

(B) Describe types of equipment and transportation needed for space travel.

B2 I1-I2

Texas Grade 7

112.23. Science

(2) As students learn science skills, they identify gravity and phases of the Moon as components of the solar system and explore the effects of events such as hurricanes on the Earth.

A3 A4 B1-B2

13) Science concepts. The student knows components of our solar system. The student is expected to:

B1 I1-I2

(A) Identify and illustrate how the tilt of the Earth on its axis as it rotates and revolves around the Sun causes changes in seasons and the length of a day; and

A2 E3 E4

(B) Relate the Earth's movement and the Moon's orbit to the observed cyclical phases of the Moon.

A3 A4 A5

Texas

Middle School (cont'd)

Starry Night Lesson Plans

In order of relevance

Texas Grade 8

§112.24. Science

(2) Students learn that stars and galaxies are part of the universe, identify light years as a way to describe distance, and learn about scientific theories of the origin of the universe. Cycles within Earth systems are studied as students learn about lunar cycles and the rock cycle.

F1-F3 G1-G3 H1-H2 A3-A5

12) Science concepts. The student knows that cycles exist in Earth systems. The student is expected to:

A1-A5 C2 E1-E4

(A) Analyze and predict the sequence of events in the lunar and rock cycles;

A4 A5

(13) Science concepts. The student knows characteristics of the universe. The student is expected to:

F1-F3 G1-G3 H1-H2 I1-I2

(A) Describe characteristics of the universe such as stars and galaxies;

F1-F3 G1-G3 H1-H2

(B) Explain the use of light years to describe distances in the universe; and

G1 H1-H2

(C) Research and describe historical scientific theories of the origin of the universe

H2