

Illinois
Middle School

Starry Night Lesson Plans

In order of relevance

Know and apply concepts that explain the composition and structure of the universe and Earth's place in it.

Late Elementary

12.F.2a Identify and explain natural cycles and patterns in the solar system (e.g., order of the planets; moon phases; seasons as related to Earth's tilt, one's latitude, and where Earth is in its yearly orbit around the sun).

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

12.F.2b Explain the apparent motion of the sun and stars.

A1A2 E1-E4

12.F.2c Identify easily recognizable star patterns (e.g., the Big Dipper, constellations).

E1-E4

Middle/Junior High School

12.F.3a Simulate, analyze and explain the effects of gravitational force in the solar system (e.g., orbital shape and speed, tides, spherical shape of the planets and moons).

B1-B2 A3 F3 C1-C3 I2

12.F.3b Describe the organization and physical characteristics of the solar system (e.g., sun, planets, satellites, asteroids, comets).

B1-B2 C1-C4 D1-D3

12.F.3c Compare and contrast the sun as a star with other objects in the Milky Way Galaxy (e.g., nebulae, dust clouds, stars, black holes).

F1-F3 G1-G3 H1-H2