

Nevada
Middle School

Starry Night Lesson Plans
In order of relevance

Solar System and Universe (Earth and Space Science Unifying Concept B)

Grade 5

E.5.B Students understand that there are many components in the solar system including Earth.

E.5.B.1 Students know there are more stars than anyone can easily count, but they are not scattered evenly, and they are not all the same in brightness or color.

A1-A5 B1-B2 C1-C4 D1-D3
E1-E4 G1 G2 I2

E.5.B.2 Students know the solar system includes the Sun, planets, and moons.

B1-B2 C1-C4 D1-D3 I2

E.5.B.3 Students know stars are like the Sun, but they are so far away that they look like points of light.

G1 G2

E.5.B.4 Students know there are cyclical patterns of observable objects in the solar system.

A1-A5 C2 E1-E4

E.5.B.5 Students know the patterns of stars in the sky stay the same (e.g., the constellations), although they appear to move across the sky nightly, and different stars can be seen in different seasons.

E1-E4

Grades 6-8

E.8.B Students understand characteristics of our solar system that is part of the Milky Way galaxy.

E.8.B.1 Students know the universe contains many billions of galaxies, and each galaxy contains many billions of stars.

A1-A5 B1-B2 C1-C4 D1-D3
E1-E4 F1-F3 G1-G3 H1-H2 I2
G1-G3 H1-H2

E.8.B.2 Students know the solar system includes a great variety of planetary moons, asteroids, and comets.

B1-B2 D1-D3 I2

E.8.B.3 Students know characteristics of the planets in our solar system.

C1-C4 I2

E.8.B.4 Students know Earth is part of a solar system located within the Milky Way Galaxy.

H1

E.8.B.5 Students know the Sun is many thousands of times closer to Earth than any other star, and billions of times closer than the far end of the Milky Way Galaxy.

B2 G1 H1

E.8.B.6 Students know the Sun is a medium-sized star located in the Milky Way Galaxy, part of which can be seen as a glowing band of light spanning the clear night sky.

F1-F3 G1-G3 H1

E.8.B.7 Students know regular and predictable motions of Earth around the Sun and the Moon around the Earth explain such phenomena as the day, the year, phases of the Moon, and eclipses.

A1-A5 E1-E4