

Massachusetts

Middle School

Grade 6-8

The Earth in the Solar System

Recognize that gravity is a force that pulls all things on and near the earth toward the center of the earth. Gravity plays a major role in the formation of the planets, stars, and solar system and in determining their motions.

B1-B2 C1-C4 D1-D3 F3 G3

Describe lunar and solar eclipses, the observed moon phases, and tides. Relate them to the relative positions of the earth, moon, and sun

A3 A4 A5

Compare and contrast properties and conditions of objects in the solar system (i.e., sun, planets, and moons) to those on Earth (i.e., gravitational force, distance from the sun, speed, movement, temperature, and atmospheric conditions).

B1-B2 C1-C4 D1-D3 I2

Explain how the tilt of the earth and its revolution around the sun result in an uneven heating of the earth, which in turn causes the seasons.

A2 E3

Recognize that the universe contains many billions of galaxies, and that each galaxy contains many billions of stars.

G1-G3 H1-H2 E1-E3

Starry Night Lesson Plans

In order of relevance