

Maine

(Proposed New Standards / 2006)

Middle School

Starry Night Lesson Plans

In order of relevance

D. THE PHYSICAL SETTING - Students will understand the universal nature of matter, energy, force and motion, and will be able to identify how these relationships are exhibited in Earth Systems, in the solar system and throughout the universe.

All Starry Night lesson plans

GRADES 6-8

D1 UNIVERSE AND SOLAR SYSTEM

Students will explain the movements, and describe the location, composition, and characteristics of our solar system and vast universe, including planets, the sun, and galaxies.

All Starry Night lesson plans

Describe the different kinds of objects in the solar system including planets, sun, moons, asteroids and comets.

B1-B2 C1-C4 D1-D3 I2

Explain the motions that cause days, years, phases of the moon and eclipses.

A1-A5 E1-E4

Describe numbers, distances, and composition of galaxies, and the location of the sun in our galaxy.

G1-G3 H1-H2

D2 EARTH

Students will discuss the various cycles, physical and biological forces and processes, position in space, and human actions that affect short and long term changes to the earth.

A1-A5 B1-B2 F1 F2 D3

Explain the effects of the Earth's tilt axis on seasons.

A2

Describe the effect of gravity on objects on Earth.

D3 C2

Give examples of both abrupt changes and slow changes in Earth's system.

A2 A3 D3 F1 F2

D4 FORCE AND MOTION

Students will describe the nature of light, the motion of waves and the force of gravity.

G2 C2 D3 G3 I2

Explain the relationship between visible light, the electromagnetic spectrum and sight.

G2

State what determines the strength of the gravitational force between any two objects and the effects on the solar system.

C2 F3 G3 I2