

South Dakota

Middle School

Earth/Space Science (2006)

Starry Night Lesson Plans

In order of relevance

Grade 6

Indicator 2: Analyze essential principles and ideas about the composition and structure of the universe.

All Starry Night Lesson plans

6.E.2.1. Students are able to identify the organization and relative scale of the solar system.

A1-A5 B1-B2 C1-C4 D1-D3 E1-E4
F1-F3 G1-G3 H1-H2 I1-I2

Sun, Moon, Earth, other planets and their moons, meteors, asteroids, and comets

A1-A5 B1-B2 C1-C4 D1-D3 F1-F3

Origins and age of the universe

G1-G3 H1-H2

Explain the association of time measurement with celestial motions.

A1-A4 E1-E4 C2

Grade 8

Indicator 2: Analyze essential principles and ideas about the composition and structure of the universe.

All Starry Night Lesson plans

8.E.2.1. Students are able to compare celestial bodies within the solar system using composition, size, and orbital motion.

A1-A5 B1-B2 C1-C4 D1-D3 E1-E4
F1-F3 G1-G3 H1-H2 I1-I2

Describe the composition of the Sun, the planets, asteroids, and comets.

B1-B2 C1-C4 D1-D3 F1-F3 I2

Use of spectroscopic analysis of celestial bodies

G2

Measurement in space

B2 G1 G2 H1 H2 E1

Constellations

E1-E4

Galaxies

G3 G4

Life cycle of a star

G2 F3 G3

HR Diagram

G2

Law of Gravitation

C3 I2 F3

Big Bang Theory

H1-H2

8.E.2.2. Students are able to differentiate the influences of the relative positions of the Earth, Moon, and Sun.

A1-A5

Lunar and solar eclipses, moon phases, tides, seasons

A1-A5 E3 E4