

South Dakota
High School

Starry Night Lesson Plans
In order of relevance

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

All Starry Night Lesson plans

9-12.E.2.1. Students are able to recognize how Newtonian mechanics can be applied to the study of the motions of the solar system.

C2 D1-D3 B1 F3 I2

Given a set of possible explanations of orbital motion (revolution), identify those that make use of gravitational forces and inertia.

C2 D1-D3 B1 F3 I2

This is all there is in the new curriculum so I have retained the older content in case a keen teacher wants to go there with their students. - MLW

GRADES 9-12 EARTH/SPACE SCIENCE STANDARDS (999)

Describe the Newtonian mechanics that can be applied to the study of the motions of the solar system.

C2 D1-D3 B1 F3 I2

Explain the position and motion of our solar system in the universe.

F3 G1 H1-H3

Know how to describe astronomical distance and time.

B2 G1-G2 H1-H3 I1 I2

Explain the formation of stars from interstellar matter.

F3 G2

Describe the physical and nuclear dynamics involved in the formation, evolution, and death of a star.

F3 F1 G2 G3

Analyze and compare various scientific theories on how the universe was formed. (Example: Big Bang theory)

H1-H3 I1-I3

Identify the arrangement of bodies found within and outside our galaxy.

B1-B2 G1 H1-H3

Describe various ways data about the universe is collected. (Example: optical, radio, and x-ray telescopes, spectrometers, space probes)

E1-E4 F1-F3 G1-G3 H1-H3 I1-I3