

Daily Lesson Plans

Standards

NGSSS – Next Generation Sunshine State Standards

Big Idea 5: Earth in Space and Time

SC.8.E.5.2 Recognize that the universe contains many billions of galaxies and that each galaxy contains many billions of stars.

Other standards of the unit

SC.8.E.5.3 Distinguish the hierarchical relationships between planets and other astronomical bodies relative to solar system, galaxy, and universe, including distance, size, and composition.

SC.8.E.5.1 Recognize that there are enormous distances between objects in space and apply our knowledge of light and space travel to understand this distance.

SC.8.E.5.5 Describe and classify specific physical properties of stars: apparent magnitude (brightness), temperature (color), size, and luminosity (absolute brightness).

Learning Targets

Students will be able to –

Recognize that Solar System is a part of a galaxy.

Identify that the Earth and Sun are part of the Milky Way Galaxy.

Classify galaxies into different classes based on their appearance.

Explain elliptical, spiral, and irregular galaxies.

Essential Questions

This higher order question will be directly derived from the benchmark, introduced at the beginning of the lesson, discussed throughout the lesson, and answered by students at the end of the lesson to show understanding of the concepts taught.

What gives shape to the galaxies?

High Order Questions

Several questions will be answered to provoke higher order thinking and include Moderate to High Complexity Levels.

What gives shape to galaxy?

Vocabulary

Students will master the following vocabulary during the time of this unit plan

- Spectroscope
- Light-Year
- Apparent Magnitude
- Luminosity
- Dark Matter
- Elliptical
- Spiral
- Irregular