

## Kindergarten Science

Updated May 2020

**Course Description-**The students will be able to describe how seasons affect the life of plants, animals and humans. They will be able to describe weather conditions during each season over time. Students will be able to observe and compare structures of plants and animals. They will be able to observe and describe the presence of the sun, moon, and stars in the sky. The students will be able to use their five senses to make observations such as sorting objects and compare/contrast sounds. They will be able to describe and compare motion of objects.

### Big Ideas:

- There is a fundamental unity underlining the diversity of all living organisms.
- Organisms are interdependent with one another and with their environment.
- Earth's systems interact with one another as they undergo change by common processes.
- Regular and predictable motion of objects in the universe can be described and explained as a result of gravitational forces.
- The universe has observable properties and structures.
- Regular and predictable motions of objects in the universe can be described and explained as the result of gravitational forces.
- Science understanding is developed through the use of science process skills, scientific knowledge, scientific investigation, reasoning, and critical thinking.
- Describe and compare motions of objects.

### Essential Learner Objectives:

#### Seasons

- The students will be able to describe how seasons affect everyday life of plants, animals, and humans. (ESS2E)
- The students will be able to describe weather conditions during over time. (ESS2D)

#### Plants and Animals

- Use observations to describe patterns of what plants and animals need to survive. (LS1C)

#### Solar System

- The students will be able to observe and describe the presence of the sun, moon and stars in the sky. (ESS1A)
- The students will be able to describe the sun as only being seen in the daytime and appears to move across the sky from morning to night. (ESS1A)

#### Five Senses

- The students will be able to sort objects based on physical properties. (PS1A)
- The students will compare and contrast different sounds (loudness, pitch, duration). (PS4A)

#### Force and Motion

- Describe ways to change the motion of an object. (PS2A2)
- Compare the effects of different strengths of pushes and pulls on the motion of an object. (PS2A1)