

PUBLIC SCHOOLS OF EDISON TOWNSHIP
OFFICE OF CURRICULUM AND INSTRUCTION

Kindergarten Science

Length of Course:	Term
Elective/Required:	Required
Schools:	Elementary
Eligibility:	Kindergarten
Credit Value:	N/A
Date Approved:	August 27, 2018

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Kindergarten Science Curricular Overview

The performance expectations in kindergarten help students formulate answers to questions such as:

- What happens if you push or pull an object harder?
- Where do animals live and why do they live there?
- What is the weather like today and how is it different from yesterday?

Kindergarten performance expectations include PS2, PS3, LS1, ESS2, ESS3,, and ETS1 Disciplinary Core Ideas from the [National Research Council](#) Framework.

Earth and Space Science:

- Students are expected to develop understanding of patterns and variations in local weather and the purpose of weather forecasting to prepare for, and respond to, severe weather.

Physical Science:

- Students are able to apply an understanding of the effects of different strengths or different directions of pushes and pulls on the motion of an object to analyze a design solution.

Life Science:

- Students are also expected to develop understanding of what plants and animals (including humans) need to survive and the relationship between their needs and where they live.

Crosscutting Concepts: The crosscutting concepts of patterns; cause and effect; systems and system models; interdependence of science, engineering, and technology; and influence of engineering, technology, and science on society and the natural world are called out as organizing concepts for these Disciplinary Core Ideas.

Science & Engineering Practices: In the kindergarten performance expectations, students are expected to demonstrate grade-appropriate proficiency in:

- Asking questions;
- Developing and using models;
- Planning and carrying out investigations;
- Analyzing and interpreting data;
- Designing solutions;
- Engaging in argument from evidence; and
- Obtaining, evaluating, and communicating information.

Students are expected to use these practices to demonstrate understanding of the core ideas.

In Kindergarten, Science will be embedded within both ELA and Mathematics. Teachers should consult the Kindergarten ELA curriculum for integration recommendations to target the Disciplinary Core Ideas presented in NJSL-Science/NGSS through literature. Mathematics integration may occur during calendar math to establish patterns in weather, for example. Teachers may leverage hands-on experiences that target the DCIs in Kindergarten to foster deeper understanding and employ the Science & Engineering Practices.

Please click [HERE](#) to view the *NJSL-Science / NGSS* for Kindergarten.