

Haddon Township Science Kindergarten

In kindergarten science classes, students will use a hands-on curriculum designed to provide them with a basic understanding of weather and about what it means to be a scientist, and how to think like one. The New Jersey Core Content Standards will be explored using a variety of instructional strategies, with an emphasis on acquiring science knowledge; observing, generalizing, and applying what has been learned to solve problems; communicating information; and discussing issues that relate to and support content. Students will communicate their developing understanding about science through discussions, projects, and written evaluation.

ESSENTIAL LEARNINGS: All kindergarten students will demonstrate an understanding of the following NJ Core Curriculum Content Standards:

Scientific Practices (NJ 5.1)

- Use outcomes of investigations to build and refine questions, models, and explanations.
- Use scientific facts, measurements, observations, and patterns in nature to build and critique scientific arguments.
- Measure, gather, evaluate, and share evidence using tools and technologies.
- Formulate explanations from evidence.
- Monitor and reflect on one's own knowledge regarding how ideas change over time.
- Revise predictions or explanations on the basis of learning new information.
- Present evidence to interpret and/or predict cause-and-effect outcomes of investigations.
- Actively participate in discussions about student data, questions, and understandings.
- Demonstrate how to safely use tools, instruments, and supplies.

Physical Science (NJ 5.2)

- Generate accurate data and organize arguments to show that not all substances respond the same way when heated or cooled, using common materials such as shortening or candle wax.
- Compare, citing evidence, the heating of different colored objects placed in full sunlight.

Life Science (NJ 5.3)

- Compare the physical characteristics of the different stages of the life cycle of an individual organism, and compare the characteristics of life stages among species.

Earth Systems Science (NJ 5.4)

- Explain how clouds form.
- Observe daily cloud patterns, types of precipitations, and temperature, and categorize the clouds by the conditions that form precipitation.