

## NCPS Science Unit Map - Grade K Parent Curriculum Guide

These scientific and engineering practices are developed in each unit throughout the year:

- Asking questions (for science) and defining problems (for engineering)
- Developing and using models
- Planning and carrying out investigations
- Analyzing and interpreting data
- Using mathematics and computational thinking
- Constructing explanations (for science) and designing solutions (for engineering)
- Engaging in argument from evidence
- Obtaining, evaluating, and communicating information

Science Topics	Student Learning Expectations
Needs of Living Things	<p>Students will explore the similarities and differences in the appearance and behaviors of a variety of animals.</p> <p><b>Through class discussion and explorations students will</b></p> <ul style="list-style-type: none"> <li>● classify varied individuals of the same species by attributes.</li> <li>● Sort, count and classify living and nonliving things in the classroom and schoolyard.</li> <li>● identify the needs of living things.</li> <li>● design appropriate habitats for organisms in the classroom.</li> </ul>
Exploring My Weather	<p>Students will learn about patterns and variations in local weather and that weather forecasting is used in preparing for, and responding to, severe weather.</p> <p><b>Through class discussion and explorations students will</b></p> <ul style="list-style-type: none"> <li>● make observations of local weather conditions to describe patterns over time.</li> <li>● identify different types of precipitation and connect them to air temperature.</li> <li>● test materials and design solutions to protect humans and animals from weather conditions.</li> </ul>