NCPS Science Unit Map - Grade 3 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 Topic	Student Learning Expectations
	Students will determine the effects of balanced and unbalanced forces on the motion of an object.
Motion and Stability	 Through class discussion and explorations students will plan and conduct investigations to provide evidence of the effects of balanced and unbalanced forces. provide evidence that a pattern can be used to predict future motion. define a simple simple design problem that can be solved by applying scientific idea about magnets.
Life Interactions	Students will learn that many characteristics of organisms are inherited from their parents and other characteristics result from individuals' interactions with the environment.
	 Through class discussion and explorations students will construct an argument that some animals form groups that help members survive Design an investigation to determine the effect of an environmental change on a population
Biological Evolution	Students will develop an understanding that when the environment changes some organisms survive and reproduce, some move to new locations, some move into the transformed environment, and some die.
	 Through class discussion and explorations students will examine how fossils are created by building their own model. analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived.