



Content Area: Science

Grade Level: Kindergarten

Course Name: Science K

Course Description: Students explore three non-sequential modules throughout the course of the year. The skills and concepts embedded into these units are tied to the New York State 5th Grade Science Assessment, however there is no state assessment in kindergarten.

Units Length of Time	Description
How Can We Change an Object's Motion? (8 weeks)	Students explain a phenomenon and solve a problem related to the game of air hockey and explain a second phenomenon related to the game of miniature golf. Throughout portions of this unit, students will: <ul style="list-style-type: none">- explain what happened to a hockey puck before it moved quickly into a goal.- solve the problem of designing a hockey game that can be played at home or at school.- explain the phenomenon of a golf ball changing its direction of motion inside a mini golf feature.
How Can We Be Ready for the Weather? (8 weeks)	Students explain two weather-related phenomena and propose solutions to weather-related problems. Throughout portions of this unit, students will: <ul style="list-style-type: none">- figure out how a pole became wet on one side while remaining dry on the other side.- use data to figure out and explain why a snowman melts at some times but not others.

Units Length of Time	Description
	<ul style="list-style-type: none"> - consider and propose solutions to weather-related problems based on location. - design a weather preparation plan for a fictional class preparing for an all-day hike at the Smithsonian Environmental Research Center (SERC).
<p>How Can We Stay Cool in the Sun? (8 weeks)</p>	<p>Students solve two problems caused by sunlight warming surfaces. Throughout portions of this unit, students will:</p> <ul style="list-style-type: none"> - solve the problem of a playground surface that is too hot to sit on during recess. - investigate the phenomenon of the warm playground and figure out that sunlight can warm surfaces. - design a solution to the problem of a person who gets warm while out in sunlight.

NYS Standard	Links
	<p>Click here to learn more about the New York State Science Learning Standards!</p>