

WESTBROOK SCHOOL DEPARTMENT
Science Essential Outcomes for Grades K-5
What Students Need to Know and Be Able to Do

(Kindergarten)	(Grade 1)	(Grade 2)	(Grade 3)	(Grade 4)	(Grade 5)
<ul style="list-style-type: none"> • • • • • • 	<ul style="list-style-type: none"> • • • • • • 	<ul style="list-style-type: none"> • • • • • • 	<ul style="list-style-type: none"> • Identifies the four forms of energy • Identifies the characteristics of magnets • Describes the basic structures and functions of skeletal, muscular, respiratory, digestive, & circulatory systems • Describes the positions and motions of objects within and beyond our solar system • Explains the affects of the rotation of the Earth • Conducts an experiment using the scientific method 	<ul style="list-style-type: none"> • Summarizes how various forces affect the motion of objects • Identifies simple machines and describes their functions • Describes the basic needs of living things and how they can be sorted into groups based on features • Describes the difference between producers, consumers, and decomposers within food chains and food webs • Describes cycles and processes that affect Earth 	<ul style="list-style-type: none"> • Describes the properties of the three states of matter • Explains how properties of substances can change when cooled, mixed, or heated • Identifies major parts of plant and animal cells and describes their function • Compares and contrasts plant and animal cells • Uses and cares for a microscope to examine and draw a variety of specimens • Identifies common characteristics to classify animals • Describes physical and behavioral adaptations of animals