

## K – 5 SCOPE AND SEQUENCE: PHYSICAL SCIENCE STRAND OBJECTIVES

Concept	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
PWC Objective	K.4.1 – K.4.5	1.4.1 – 1.4.3	2.4.1 – 2.4.2	3.4.1 – 3.4.2	4.4.1 – 4.4.2	5.4.1 – 5.4.3
<b>Matter</b>	<p>SOL K.4a-d—objects can be described (colors, shapes, textures, relative size, weight, position, speed)</p> <p>PWC K.4.1 Different sources of heat and their effects on objects.</p> <p>SOL K.5a-c—water occurs in states; flow is downhill; float/sink</p>	SOL 1.3a-c—materials interact with water (liquids, solids, effect of temperature)	SOL 2.3a, b—basic properties of solids, liquids, gases (mass/volume; processes—condensation, evaporation, melting, freezing)	SOL 3.3a-c—objects are made of one or more materials; can be composed of small parts; physical properties remain the same when reduced in size		SOL 5.4a-c—organization of matter (atoms, elements, molecules, compounds); mixtures and solutions; effect of heat on states; chemical/physical change; mass, volume, density
<b>Force, Motion, and Energy</b>	SOL K.4e—words used to describe position (over-under; in-out; above-below; left-right) and speed (fast-slow)	SOL 1.2a, c, d—motions of objects; pushes/pulls; playground applications			SOL 4.2a-d—characteristics and interactions of moving objects (cause of motion; change in motion; friction; kinetic energy)	
<b>Machines</b>				SOL 3.2a-d—types of simple machines; functions; compound machines; examples of simple and compound machines)		
<b>Electricity</b>					SOL 4.3a-f—conductors and insulators; circuits; static electricity; ability to transform electrical energy to other forms; historical contributions	
<b>Magnets</b>	SOL K.3a-b—words to describe properties; applications		SOL 2.2a-b—magnets (vocabulary; applications)			
<b>Light and Sound</b>	SOL K.7a-b—basic concepts related to light and shadows (occur naturally; can be produced)	SOL 1.2b—vibrations can cause sound				<p>SOL 5.2a-c—concepts related to sound (basic characteristics; transmission through media; applications)</p> <p>SOL 5.3a-e—visible spectrum; refraction; reflection; transmission through materials; historical contributions</p>