

		PK					K					G1			G2		G3	G4		G5	G6									
Grade Range	Number	Massachusetts Science and Technology/Engineering Standards	Free Explore	Counting	Letters	Make 10	Race	Letters	Measurements	Addition	Subtraction	Challenge	Traffic Jam	Line Dance	Motors	Gears	Pulleys	Dancing Birds	Spinning Top	Drumming Monkey	Ride Challenge	Amazing Adventure Story	Vehicle Challenge	Soccer	Burglar Alarm Challenge	NXT Introduction	Dragster Challenge			
Physical Science																														
PK-2	3	Describe the various ways that objects can move, such as in a straight line, zigzag, back-and-forth, round-and-round, fast, and slow.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PK-2	4	Demonstrate that the way to change the motion of an object is to apply a force (give it a push or a pull). The greater the force, the greater the change in the motion of the object.	o	o	o	o	o	o	o	o	o	o	o	o	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PK-2	5	Recognize that under some conditions, objects can be balanced.													x	x	x	x	x	x	x	x	x	x	x	x	x	x	z	
3-5	1	Differentiate between properties of objects (e.g., size, shape, weight) and properties of materials (e.g., color, texture, hardness).																					o	x	o	o	o	o	o	
3-5	4	Identify the basic forms of energy (light, sound, heat, electrical, and magnetic). Recognize that energy is the ability to cause motion or create change.																												
3-5	5	Give examples of how energy can be transferred from one form to another.													x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
3-5	6	Recognize that electricity in circuits requires a complete loop through which an electrical current can pass, and that electricity can produce light, heat, and sound.													x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
3-5	7	Identify and classify objects and materials that conduct electricity and objects and materials that are insulators of electricity.													o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
6-8	11	Explain and give examples of how the motion of an object can be described by its position, direction of motion, and speed.	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	x	x
Technology/Engineering																														
PK-2	1.1	Identify and describe characteristics of natural materials (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam).	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	

6-8	6.3	Identify and describe three subsystems of a transportation vehicle or device, i.e., structural, propulsion, guidance, suspension, control, and support.																										
6-8	6.4	Identify and explain lift, drag, friction, thrust, and gravity in a vehicle or device, e.g., cars, boats, airplanes, rockets.																										

X = addresses standard
o = partially addresses standard