

AMHERST PUBLIC AND PELHAM ELEMENTARY SCHOOLS – CURRICULUM MAP

ELEMENTARY SCIENCE GRADE: 1	UNIT TITLE: MAGNETS
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SECTION	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S) PreK–2
Magnetic Materials: Classification	2 lessons	<ul style="list-style-type: none"> Some metals are magnetic. 	<ul style="list-style-type: none"> Sort and classify objects. Make careful observations. Record observations using words and pictures. Discuss observations with others. Organize data on graphs and charts. 	Teacher observation sheets Embedded assessments Student products	PS 1 Skills of Inquiry Grades 3-5 PS 10
Magnetic Force: Inquiry	5 lessons	<ul style="list-style-type: none"> The strength a magnet can be measured by how much metal it attracts. Magnets work over a distance. Magnets have a north and a south pole. Like poles repel; opposite poles attract. 	<ul style="list-style-type: none"> Ask questions about objects in the environment. Make predictions. Name and use simple equipment and tools to gather data and extend the senses. Record observations and data with pictures, numbers, or words. 	Teacher observation sheets Embedded assessments Student products	PS 1; PS 3; PS 4; PS 5 Skills of Inquiry Grades 3-5 PS 9
Using Magnets: Technology	4 lessons	<ul style="list-style-type: none"> Things can move in different ways, including straight, zigzag, round-and-round, and back-and-forth. 	<ul style="list-style-type: none"> Name and use simple equipment and tools to make things. 	Teacher observation sheets Embedded assessments Student products	PS 3; PS 4; PS 5 T/E 1.1; T/E 1.2; T/E 1.3 Skills of Inquiry

Massachusetts Science and Technology/Engineering Curriculum Framework, October 2006

Physical Sciences (PS); Grades PreK–2

PS 1 Sort objects by observable properties such as size, shape, color, weight, and texture.

PS 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.

PS 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.

PS 5 Recognize that under some conditions, objects can be balanced.

Physical Sciences (PS); Grades 3-5

PS 9 Recognize that magnets have poles that repel and attract each other

PS 10 Identify and classify objects and materials that a magnet will attract and objects and materials that a magnet will not attract.

Skills of Inquiry, Experimentation, and Design

- Ask questions about objects, organisms, and events in the environment.
- Tell about *why and what would happen if?*
- Make predictions based on observed patterns.
- Name and use simple equipment and tools (e.g., rulers, meter sticks, thermometers, hand lenses, and balances) to gather data and extend the senses.
- Record observations and data with pictures, numbers, or written statements.
- Discuss observations with others.