

AMHERST PUBLIC AND PELHAM ELEMENTARY SCHOOLS – CURRICULUM MAP

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| <b>ELEMENTARY SCIENCE</b><br><b>GRADE: 1</b> | <b>UNIT TITLE: WEATHER</b> |
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| <b>SECTION</b>    | <b>LENGTH</b> | <b>CONTENT</b>  | <b>SKILLS</b>   | <b>METHODS OF ASSESSMENT</b>                               | <b>FRAMEWORK STRAND(S) &amp; STANDARD(S)<br/>PreK–2</b> |
|-------------------|---------------|---|---|--|---|
| Weather           | 3 lessons     | <ul style="list-style-type: none"> <li>• Features of weather include cloud cover, precipitation, wind, and temperature.</li> <li>• Weather changes from day to day and from week to week.</li> <li>• Recording observations is more reliable than remembering.</li> </ul> | <ul style="list-style-type: none"> <li>• Observe weather using the senses.</li> <li>• Record data on graphs and charts.</li> </ul>  | Pre unit assessment<br>Worksheets<br>Teacher observations  | ESS 2<br>ESS 3<br>ESS 4                                 |
| Wind              | 2 lessons     | <ul style="list-style-type: none"> <li>• Instruments tell us information beyond what we can learn from our senses.</li> </ul>   | <ul style="list-style-type: none"> <li>• Make a wind flag.</li> <li>• Use simple tools to estimate wind speed.</li> <li>• Record data on graphs and charts.</li> </ul>                      | Worksheets<br>Teacher observations                         | ESS 2<br>ESS 3<br>ESS 4<br>T/E 1.3                      |
| Temperature       | 4 lessons     | <ul style="list-style-type: none"> <li>• The liquid in a thermometer reacts to heat and cold.</li> <li>• Darker colors absorb more heat energy from the sunlight than lighter colors absorb.</li> </ul>   | <ul style="list-style-type: none"> <li>• Use thermometers to measure temperature.</li> <li>• Record data on graphs and charts.</li> <li>• Predict, experiment, draw conclusions.</li> </ul> | Worksheets<br>Teacher observations                         | ESS 2<br>ESS 3<br>ESS 4<br>T/E 1.3                      |
| Rain              | 3 lessons     | <ul style="list-style-type: none"> <li>• Weather affects decisions people make, like clothing and activities.</li> <li>• Some fabrics stop water from soaking through better than others.</li> </ul>  | <ul style="list-style-type: none"> <li>• Make and use a rain gauge.</li> <li>• Record data on graphs and charts.</li> </ul>   | Worksheets<br>Teacher observations                         | ESS 2<br>ESS 3, ESS 4<br>PS 2<br>T/E 1.1, T/E 1.2       |
| Clouds            | 2 lessons     | <ul style="list-style-type: none"> <li>• Water can be solid, liquid or gas.</li> <li>• Different kinds of clouds are linked to different kinds of weather.</li> </ul>   | <ul style="list-style-type: none"> <li>• Classify clouds.</li> <li>• Record data on graphs and charts.</li> </ul>   | Teacher observations<br>Performance rubric                 | ESS 2, ESS 3,<br>ESS 4, ESS 5<br>PS 2                   |
| Weather forecasts | 2 lessons     | <ul style="list-style-type: none"> <li>• Meteorologists are scientists who study weather and make weather forecasts.</li> </ul>   | <ul style="list-style-type: none"> <li>• Interpret and summarize weather data.</li> </ul>   | Worksheets<br>Teacher observations<br>Post unit assessment | ESS 2, ESS 3,<br>ESS 4, ESS 5<br>PS 2                   |

*Massachusetts Science and Technology/Engineering Curriculum Framework, October 2006; Grades PreK–2*

**Earth and Space Science (ESS)**

**ESS 2** Understand that air is a mixture of gases that is all around us and that wind is moving air.

**ESS 3** Describe the weather changes from day to day and over the seasons.

**ESS 4** Recognize that the sun supplies heat and light to the earth and is necessary for life.

**ESS 5** Identify some events around us that have repeating patterns, including the seasons of the year, day and night.

**Physical Science (PS)**

**PS 2** Identify objects and materials as solid, liquid, or gas. Recognize that solids have a definite shape and that liquids and gases take the shape of their container.

**Technology/Engineering (T/E)**

**T/E 1.1** Identify and describe characteristics of natural materials (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam).

**T/E 1.2** Identify and explain some possible uses for natural materials (e.g., wood, cotton, fur, wool) and human-made materials (e.g., plastic, Styrofoam).

**T/E 1.3** Identify and describe the safe and proper use of tools and materials (e.g., glue, scissors, tape, ruler, paper, toothpicks, straws, spools) to construct simple structures.