

**Youngstown City Schools  
Grade 3 Science Pacing Guide  
Grading Period 3**

Strand/Topic/ Content Statement	Duration	Clear Learning Targets	Model Curriculum Resources	Vocabulary/Concepts
<p><b>PHYSICAL SCIENCE</b></p> <p>Topic: <b>Matter and Forms of Energy</b></p> <p><b>All objects and substances in the natural world are composed of matter.</b></p>	<p>Weeks 1 – 3</p>	<p><b>“I Can...”</b></p> <p><input type="checkbox"/> determine the weight of solids and liquids with the use of a scale.</p> <p><input type="checkbox"/> determine the volume of liquids with the use of a graduated cylinder/beaker and a scale.</p> <p><input type="checkbox"/> identify and describe the physical properties of object.</p> <p><input type="checkbox"/> describe the differences between a solid, a liquid, and a gas.</p> <p><input type="checkbox"/> explain that everything is made of matter and that matter takes up space and has mass (or weight).</p>	<p><b>Curriculum Units:</b></p> <ul style="list-style-type: none"> <li>• What’s the Matter?</li> </ul> <p><b>Science Textbook:</b></p> <p>-</p> <p><b>Discovery Education:</b> <a href="http://www.discoveryeducation.com">www.discoveryeducation.com</a></p> <ul style="list-style-type: none"> <li>• Properties of Matter, Part 1</li> <li>• Properties of Matter, Part 2</li> <li>• A First Look: Solids, Liquids, and Gases</li> <li>• Matter and Its Properties: Measuring Matter</li> </ul> <p><b>Ohio Department of Education - Science:</b> <a href="http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science">http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</a></p> <p>GIZMOS <a href="http://www.explorelearning.com">www.explorelearning.com</a></p>	<p>Matter</p> <p>Weight (Mass)</p> <p>Solid</p> <p>Liquid</p> <p>Gas</p> <p>Volume</p> <p>Metric Unit</p> <p>Beaker</p> <p>Graduated Cylinder</p> <p>Gravity</p> <p>Scale</p> <p>Magnification</p> <p>Properties</p> <p>Substance</p>

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<p><b>PHYSICAL SCIENCE</b></p> <p>Topic: <b>Matter and Forms of Energy</b></p> <p><b>Matter exists in different states, each of which has different properties.</b></p>	<p>Weeks 4-6</p>	<p><b>“I Can...”</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> demonstrate that heating and cooling causes matter to change its states and properties.</li> <li><input type="checkbox"/> recognize that there are three states of matter which are commonly known as solids, liquids and gases.</li> <li><input type="checkbox"/> explain that shape and compressibility are properties that are used to distinguish between the states of matter.</li> <li><input type="checkbox"/> identify different properties of solids, liquids and gases.</li> <li><input type="checkbox"/> employ simple equipment and tools to gather data and extend knowledge on the states of matter.</li> <li><input type="checkbox"/> obtain, evaluate, and ask questions about the observations and explanations of other students’ thinking about observations on the states of matter.</li> <li><input type="checkbox"/> communicate about observations, investigations, and explanations of my learning as I present my finished products on the different states of matter and their properties.</li> </ul>	<p><b><u>Curriculum Units:</u></b></p> <ul style="list-style-type: none"> <li>• State Your Matter</li> </ul> <p><b><u>Science Textbook :</u></b></p> <p><b><u>Discovery Education:</u></b> <a href="http://www.discoveryeducation.com">www.discoveryeducation.com</a></p> <ul style="list-style-type: none"> <li>• States of Matter 3</li> <li>• Common Properties of Matter: Atoms, Elements, and States</li> <li>• States of Matter: Solid, Liquid, and Gas</li> <li>• The Language of Science: Physical Science</li> <li>• Science Lab: Matter</li> <li>• Lodge McCammon Songs: Shake: Solids, Liquids, and Gases</li> <li>• Matter Changes Review: Matter</li> <li>• Gases</li> <li>• Three Types of Matter: An Introduction</li> </ul> <p><b><u>Ohio Department of Education - Science:</u></b> <a href="http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science">http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</a></p> <p><b>GIZMOS</b> <a href="http://www.explorelearning.com">www.explorelearning.com</a></p>	<p>States of matter Properties Compressibility Volume Heating Cooling Phase Change Melting Freezing Energy Evaporate Gas Liquid Matter Solid</p>
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<p><b>PHYSICAL SCIENCE</b></p> <p><b>Topic: Matter and Forms of Energy</b></p> <p><b>Heat, electrical energy, light, sound and magnetic energy are forms of energy.</b></p>	<p>Weeks 7 - 9</p>	<p><b>“I Can...”</b></p> <p><input type="checkbox"/> demonstrate that heat is a form of energy and can create change in an object.</p> <p><input type="checkbox"/> demonstrate that sound, motion, light, and electricity are also forms of energy which have the ability to cause motion or create change.</p> <p><input type="checkbox"/> compare and contrast items to demonstrate that magnetic energy causes motion and creates change.</p>	<p><b><u>Curriculum Units:</u></b></p> <ul style="list-style-type: none"> <li>• Our Energy Matters!</li> </ul> <p><b><u>Science Textbook:</u></b></p> <p>–</p> <p><b><u>Discovery Education:</u></b> <a href="http://www.discoveryeducation.com">www.discoveryeducation.com</a></p> <ul style="list-style-type: none"> <li>• Electricity and Magnetism:</li> <li>• The Magic of Magnets</li> <li>• A First Look: Sound</li> <li>• Electricity and Magnetism: Static Electricity</li> <li>• Exploring: Energy</li> </ul> <p><b><u>Ohio Department of Education - Science:</u></b> <a href="http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science">http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</a></p> <p><b>GIZMOS</b> <a href="http://www.explorelearning.com">www.explorelearning.com</a></p>	<p>Heat Energy</p> <p>Electrical Energy</p> <p>Light Energy</p> <p>Sound Energy</p> <p>Magnetic Energy</p> <p>Motion</p> <p>Uncharged Objects</p> <p>Charged Objects</p>
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