

**Youngstown City Schools  
Grade 5 Science Pacing Guide  
Grading Period 4**

Strand/Topic/Content Statement	Duration	Clear Learning Targets	Curriculum Resources	Vocabulary/Concepts
<p style="text-align: center;"><b>EARTH and SPACE SCIENCE</b></p> <p><b>The solar system includes the sun and all celestial bodies that orbit the Sun. Each planet in the solar system has unique characteristics.</b></p> <p>*Topics within this content statement will only be assessed on Part 2: End-Of-Year Assessment of Ohio's Next Generation Assessments for Science.</p>	<p style="text-align: center;">Weeks 1-4</p>	<p style="text-align: center;"><b>"I Can..."</b></p> <ul style="list-style-type: none"> <li>- evaluate the characteristics of a planet as it relates to distance from the Sun, size, composition, and movement.</li> <li>- design and construct a relative scaled-model that can demonstrate the planet size in relationship to the Sun and the Earth.</li> <li>- compare and contrast the physical characteristics of meteoroids, meteors, asteroids, and comets</li> <li>- describe the effects of meteoroids on the Earth's surface.</li> </ul>	<p style="text-align: center;"><u>Curriculum Units</u></p> <ul style="list-style-type: none"> <li>• Out of this World</li> </ul> <p><u>Textbook:MacMillan Science</u></p> <p><u>Discovery Education:</u></p> <ul style="list-style-type: none"> <li>• <a href="http://www.discoveryeducation.com">www.discoveryeducation.com</a></li> </ul> <p><u>Ohio Department of Education - Science:</u> <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><a href="#">AIR Practice Site</a></p>	<p style="text-align: center;"><b>Vocabulary/Concepts</b></p> <p>8 Planets (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune)</p> <p>Asteroid</p> <p>Atmosphere</p> <p>Celestial bodies</p> <p>Comet</p> <p>Craters</p> <p>Gravity</p> <p>Gravity/gravitational attraction</p> <p>Impact</p> <p>Meteor</p> <p>Meteorite</p> <p>Meteoroid</p> <p>Orbit</p> <p>Physical characteristics</p> <p>Pluto - Dwarf Planet</p> <p>Solar System</p>

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<p style="text-align: center;"><b>CULMINATING ACTIVITIES</b></p> <p style="text-align: center;"><b>Design challenges</b></p> <p style="text-align: center;">Science Inquiry and Application</p> <p style="text-align: center;">Technology and Engineering</p>	<p style="text-align: center;">Weeks 5-9</p>	<p style="text-align: center;"><b>"I Can..."</b></p> <p style="text-align: center;">-follow a laboratory procedure and work collaboratively within a group using appropriate scientific tools.</p> <p style="text-align: center;">-work individually, with a partner, and as a team to test a scientific concept, change a variable, and record the experimental outcome.</p> <p style="text-align: center;">-use the engineering design cycle to develop a solution with a predictable outcome.</p>	<p><u>Curriculum Units</u></p> <ul style="list-style-type: none"> <li>• Egg Drop</li> <li>• Which House is for Me?</li> </ul> <p><u>Other Resources:</u> Websites for the design challenges <a href="http://www.simplyscience.com/engineering.html">www.simplyscience.com/engineering.html</a></p> <p><u>Ohio Department of Education - Science:</u> <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><a href="#">AIR Practice Site</a></p>	
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