

**Youngstown City Schools
Grade 6 Science Pacing Guide
Grading Period 3**

<p style="text-align: center;">Strand/Content Statement</p>	<p style="text-align: center;">Duration</p>	<p style="text-align: center;">Clear Learning Targets</p>	<p style="text-align: center;">Curriculum Resources</p>	<p style="text-align: center;">Vocabulary/Concepts</p>
<p>PHYSICAL SCIENCE There are two categories of energy: kinetic and potential. Rocks, minerals and soils have common and practical uses. (6.PS.3)</p>	<p style="text-align: center;">Weeks 1-3</p>	<p>"I Can..."</p> <ul style="list-style-type: none"> - explain that objects and substances in motion have kinetic energy. -explain that objects and substances can have energy as a result of their position. - explore, investigate, and explain various types of potential and kinetic energy. 	<p><u>Holt Series Science Textbook:</u></p> <ul style="list-style-type: none"> • Energy, Matter, and Change • Energy and the Conservation of Energy <p>www.explorellearning.com GIZMOS:</p> <ul style="list-style-type: none"> • Potential Energy on Shelves • Roller Coaster Physics <p><u>Discovery Education:</u> http://www.discoveryeducation.com</p> <p><u>AIR Practice Site</u> <u>Ohio Department of Education - Science:</u> http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</p> <p>-----</p>	<p>Electrical Energy Gravitational Potential Energy Kinetic Energy Potential Energy Sound Energy Thermal Energy</p>
<p>PHYSICAL SCIENCE An object's motion can be described by its speed and the direction in which it is moving. (6.PS.4)</p>	<p style="text-align: center;">Weeks 4-6</p>	<ul style="list-style-type: none"> -describe an objects motion in relation to a reference point. - calculate an object's speed based on the amount of time it takes to travel a certain distance. -analyze and interpret position vs time and speed vs. time graphs in order to describe an object's motion. 	<p><u>Curriculum Units:</u></p> <ul style="list-style-type: none"> • Speed Racers <p><u>Holt Series Science Textbook:</u></p> <ul style="list-style-type: none"> • Distance, Time, and Speed • Graphs of Motion <p>www.explorellearning.com GIZMOS:</p> <ul style="list-style-type: none"> • Measuring Motion • Roller Coaster Physics • Distance-Time Graphs <p><u>Discovery Education:</u> http://www.discoveryeducation.com</p> <p><u>Ohio Department of Education - Science:</u> http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</p> <p><u>AIR Practice Site</u></p>	<p>Distance Motion Position vs Time Graph Reference Point Speed Speed vs. Time Graph Time</p>

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<p>LIFE SCIENCE</p> <p>The content statements for sixth-grade Life Science are each partial components of a large concept. The parts have been isolated to call attention to the depth of knowledge required to build to one of biology's foundational theories, Modern Cell Theory. It is recommended that the content statements be combined and taught as a whole.</p> <p>Cells are the fundamental unit of life. (6.LS.1)</p> <p>All cells come from pre-existing cells. (6.LS.2)</p> <p>Cells carry on specific functions that sustain life. (6.LS.3)</p> <p>Living systems at all levels of organization demonstrate the complementary nature of structure and function. (6.LS.4)</p>	<p>Weeks 7-9...</p> <p>...will continue through end of 4th Grading Period</p>	<p>"I Can..."</p> <ul style="list-style-type: none"> - Demonstrate and explain how cells divide resulting in more cells, growth and repair. - Compare and explain reproduction processes in single-celled and multi-cellular organisms. - Use microscopes to observe cells - Describe cell structures in relation to their function in the cell. - Explain the roles of cells, tissues, organs, and organ systems in carrying out life functions in organisms. - Compare and analyze body plans, symmetry and internal structures to classify organisms. 	<p><u>Textbook Resources:</u> Holt Series Science Textbooks</p> <p>www.explorellearning.com GIZMOS:</p> <ul style="list-style-type: none"> • Cell Division • Cell Structure <p><u>Discovery Education:</u> http://www.discoveryeducation.com <u>Ohio Department of Education - Science:</u> http://education.ohio.gov/Topics/Ohio-s-New-Learning-Standards/Science</p> <p>AIR Practice Site</p>	<p>6.LS.1 Cell Cell Membrane Cell Wall Chloroplast Eubacteria Fungi Lysosome Microscope Micrographs Mitochondria Modern Cell Theory Multi-Cellular Nucleus Organelles Organs Plasma Membrane Protista Ribosome Single-Cellular Tissues Vacuole</p> <p>6.LS.2 Binary Fission Cell Division Cellular Growth and Repair Chromosomes Daughter Cell Genetic Material Mitosis Parent Cell Pre-existing Cells Reproduction Traits</p> <p>Continued on next page...</p>

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				<p>6.LS.3 Energy Transfer/Transformations Gas Exchange Homeostasis Molecules Organs Organ Systems Protein Building Synthesis Tissues Waste Disposal</p> <p>6.LS.4 Body Plans Cells Internal Structures Organs Organ Systems Symmetry Tissues</p>