



**Millington Central  
Middle High School**

## **SCIENCE PACING GUIDE**

### **7<sup>th</sup> Grade**

<b>FIRST QUARTER</b>		
<b>Discovery Ed Lesson(s)</b>	<b>Pacing</b>	<b>Topics</b>
<b>Concept 1.1 Atomic Structure &amp; Elements</b>	<b>1 week</b>	<ul style="list-style-type: none"><li>• <b>Structure of atoms and understand subatomic particles</b></li></ul>
<b>Concept 1.6 States of Matter</b>	<b>1 week</b>	<ul style="list-style-type: none"><li>• <b>States of Matter</b></li></ul>
<b>Concept 1.2 Periodic Table</b>	<b>2 weeks</b>	<ul style="list-style-type: none"><li>• <b>Using the periodic table to identify matter</b></li></ul>
<b>Concept 1.5 Molecules</b>	<b>1 week</b>	<ul style="list-style-type: none"><li>• <b>Compare/Contrast elemental and compound molecules</b></li></ul>
<b>Concept 1.3 Combining and Separating</b>	<b>1 week</b>	<ul style="list-style-type: none"><li>• <b>Classifying pure substances or mixtures</b></li></ul>
<b>Concept 1.4 Chemical Reactions &amp; Equations</b>	<b>2 weeks</b>	<ul style="list-style-type: none"><li>• <b>Law of Conservation of Mass</b></li></ul>
	<b>1 week</b>	<ul style="list-style-type: none"><li>• <b>Review and Unit Test</b></li></ul>



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Second Nine Weeks		
Discovery Ed Lessons	Pacing	Topics
Concept 2.3 Cell Theory Concept 2.5 Structure of Life	2 weeks	<ul style="list-style-type: none"><li>Cell structure and each organelle's function</li></ul>
Concept 2.2 Osmosis and Diffusion	1 week	<ul style="list-style-type: none"><li>Osmosis and diffusion</li></ul>
Concept 2.6 Cellular Respiration Concept 2.7 Photosynthesis	1 week	<ul style="list-style-type: none"><li>Cellular respiration and photosynthesis</li></ul>
Concept 2.3 Cell Theory Concept 2.5 Structure of Life	1 week	<ul style="list-style-type: none"><li>Kingdoms and levels of organization for multicellular organisms</li></ul>
	1 week	<ul style="list-style-type: none"><li>Review and Unit test</li></ul>
Concept 4.1 Controlling the Body Concept 4.2 The Body Machine Concept 4.3 Integumentary	2 weeks	<ul style="list-style-type: none"><li>Body Systems</li></ul>



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THIRD QUARTER		
Lesson(s)	Pacing	Topics
Concept 2.4 Asexual	1 week	<ul style="list-style-type: none"><li>Asexual and sexual reproduction</li></ul>
Concept 2.1 Cell Cycle and Mitosis Concept 3.1 Meiosis	2 weeks	<ul style="list-style-type: none"><li>Mitosis and meiosis</li></ul>
Concept 3.2 Mendel and Heredity	2 weeks	*Heredity
Concept 3.3 Concepts and the Impacts of Mutations on Organisms	2 weeks	<ul style="list-style-type: none"><li>Impact of structural changes to genes</li></ul>
Concept 3.4 Adaptations	1 week	<ul style="list-style-type: none"><li>Adaptations</li></ul>
	1 week	<ul style="list-style-type: none"><li>Review and Unit Test</li></ul>



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FOURTH QUARTER		
Lesson(s)	Pacing	Topics
Concept 7.1 Composition of Air	1 week	<ul style="list-style-type: none"><li>Composition of atmosphere</li></ul>
Concept 7.2 Anthropogenic Changes	1 week	<ul style="list-style-type: none"><li>Human activity and climate</li></ul>
Concept 5.1 Biochemical Engineering	2 weeks	<ul style="list-style-type: none"><li>Biomedical problem/solution</li></ul>
	1 week	<ul style="list-style-type: none"><li>Review for state testing</li></ul>
	2 weeks	<ul style="list-style-type: none"><li>State testing</li></ul>
	3 weeks	<ul style="list-style-type: none"><li>Performance-Based Learning Project</li></ul>