

**MIAMI-DADE COUNTY PUBLIC SCHOOLS  
DISTRICT PACING GUIDE**

**YEAR-AT-A-GLANCE/ CURRICULUM MAP**

<b>M/J COMPREHENSIVE SCIENCE 1</b>		<b>COURSE CODE: 200401001</b>	
<b>1<sup>ST</sup> Nine Weeks</b>	<b>2<sup>ND</sup> Nine Weeks</b>	<b>3<sup>RD</sup> Nine Weeks</b>	<b>4<sup>TH</sup> Nine Weeks</b>
<p>I. Thermal Energy Movement</p> <ul style="list-style-type: none"> <li>A. Energy Transfer</li> <li>B. Measuring Heat</li> <li>C. Protecting from Radiation</li> <li>D. Modeling the Greenhouse Effect</li> </ul> <p>II. Atmosphere and Spheres of Earth</p> <ul style="list-style-type: none"> <li>A. Ozone Layer</li> <li>B. Layers of the Atmosphere</li> <li>C. Earth Systems</li> </ul> <p>III. Causes of Weather</p> <ul style="list-style-type: none"> <li>A. Spheres of the Earth</li> <li>B. Water Cycle</li> <li>C. Weather</li> <li>D. Influences on Local Weather</li> <li>E. Instruments/tools used to Measure Weather</li> </ul> <p>IV. Climate and Global Patterns</p> <ul style="list-style-type: none"> <li>A. Climate</li> <li>B. Land vs. Water</li> <li>C. Greenhouse Effect</li> <li>D. Global Warming</li> </ul> <p>V. Natural Disasters and their Effects on Floridians</p> <ul style="list-style-type: none"> <li>A. Hurricanes</li> <li>B. Other Natural Disasters</li> <li>C. Models</li> <li>D. Emergency Preparedness</li> </ul>	<p>VI. How Weathering and Erosion Affect the Earth</p> <ul style="list-style-type: none"> <li>A. Weathering</li> <li>B. Erosion</li> <li>C. Deposition</li> </ul> <p>VII. Landforms of the Geosphere</p> <ul style="list-style-type: none"> <li>A. Types and Formation</li> <li>B. Landforms and Importance to the Environment and Society</li> </ul> <p>VIII. Forms of Energy</p> <ul style="list-style-type: none"> <li>A. Potential Energy</li> <li>B. Kinetic Energy</li> <li>C. Examples of Each Energy</li> </ul> <p>IX. Energy Transfers and the Law of Conservation of Energy</p> <ul style="list-style-type: none"> <li>A. Law of Conservation of Energy</li> <li>B. Transferring Energy in a System</li> </ul>	<p>X. Motion of Objects</p> <ul style="list-style-type: none"> <li>A. Measuring Speed and Distance</li> <li>B. Constructing Line Graphs</li> <li>C. Factors Affecting Speed</li> </ul> <p>XI. Types of Forces</p> <ul style="list-style-type: none"> <li>A. Contact Forces</li> <li>B. Non-Contact Forces</li> </ul> <p>XII. Law of Gravity</p> <ul style="list-style-type: none"> <li>A. Gravitational Force</li> <li>B. Calculating Gravity</li> <li>C. Newton's Law of Universal Gravitation</li> </ul> <p>XIII. Forces and Motion</p> <ul style="list-style-type: none"> <li>A. Direction of Motion</li> <li>B. Forces</li> </ul> <p>XIV. Levels of Organization</p> <ul style="list-style-type: none"> <li>A. Hierarchical Organization of Organisms</li> <li>B. Linnaean Classification System</li> </ul>	<p>XV. Cell Theory</p> <ul style="list-style-type: none"> <li>A. Cell Theory</li> </ul> <p>XVI. Cell Structure and Organelles</p> <ul style="list-style-type: none"> <li>A. Structure of Cells</li> <li>B. Plant and Animal Cell Comparison</li> </ul> <p>XVII. Human Body Systems</p> <ul style="list-style-type: none"> <li>A. Major Body Systems</li> <li>B. Interactions for Homeostasis</li> <li>C. The Body</li> <li>D. Effects of Drugs</li> </ul> <p>XVIII. Homeostasis</p> <ul style="list-style-type: none"> <li>A. Energy Extraction from Food</li> <li>B. Removal of Waste</li> <li>C. Reproducing</li> </ul> <p>XIX. Pathogens Comparison</p> <ul style="list-style-type: none"> <li>A. Viruses</li> <li>B. Bacteria</li> <li>C. Fungi and Parasites</li> <li>D. Disease Prevention</li> </ul> <p>XX. Social and Emotional Growth</p> <ul style="list-style-type: none"> <li>A. Social and Emotional Growth</li> <li>B. Child Abuse and Sexual Abuse</li> </ul>