

<b>Planned Course: Science</b>		<b>Course Number: -</b>		<b>Department: Elementary</b>	
<b>Unit: C (Earth Science)</b>		<b>Grade Level: 4</b>		<b>Date Approved: 8/19/2014</b>	
<b>Estimated Time: 4.5 weeks (of 18)</b>		<b>Level/Track: All Students</b>			
<b>PA Academic Standards</b>	<b>➤ Core Concepts (in question format)</b> • <b>Skills/Knowledge</b>	<b>Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)</b>	<b>Assessments (include types and topics)</b>		

<p>S4.A.2.2 Identify appropriate instruments for a specific task and describe the information the instrument can provide. S4.A.2.2.1</p> <p>S4.A.3.3 Identify and make observations about patterns that regularly occur and reoccur in nature. S4.A.3.3.1/2</p> <p>S4.B.3.2 Describe, explain, and predict change in natural or human-made systems and the possible effects of those changes on the environment. S4.B.3.2.3</p> <p>S4.D.1.1 Describe basic landforms in Pennsylvania. S4.D.1.1.1/2/3</p> <p>S4.D.1.2 Identify the types and uses of Earth's resources. S4.D.1.2.1/2/3</p> <p>S4.D.1.3 Describe Earth's different sources of water or describe changes in the form of water.</p>	<p><b>How do Earth's resources change?</b></p> <p>➤ How are minerals classified?</p> <ul style="list-style-type: none"> <li>• Students will identify different properties of minerals and understand how minerals make up rocks.</li> </ul> <p>➤ How are rocks classified?</p> <ul style="list-style-type: none"> <li>• Students will describe the three categories of rocks and know how they are formed.</li> </ul> <p>➤ What are weathering and erosion?</p> <ul style="list-style-type: none"> <li>• Students will explain how weathering, erosion, and deposition can change Earth's surface.</li> </ul> <p>➤ How can Earth's surface change rapidly?</p> <ul style="list-style-type: none"> <li>• Students will describe how rapid processes change Earth's surface.</li> </ul> <p>➤ Where is Earth's water?</p> <ul style="list-style-type: none"> <li>• Students will explain where water collects on Earth.</li> </ul>	<p>Pearson <i>Interactive Science</i></p> <ul style="list-style-type: none"> <li>• Chapters 5 and 6</li> </ul> <p>Discover <i>Weather</i> booklet</p> <p>Discovery Education video <i>Weather Smart: Forecasting and Weather Instruments</i> (has blackline masters and teacher's guide)</p> <p><i>Pennsylvania: Our Home</i></p> <ul style="list-style-type: none"> <li>• (landforms)</li> </ul> <p>PearsonSuccessNet.com Interactive Digital Path</p> <ul style="list-style-type: none"> <li>• videos, activities, etc.</li> </ul> <p>PearsonSuccessNet.com Science leveled readers</p>	<p>Chapter review pages in student text</p> <p>Benchmark practice pages in student text</p> <p>Words to Know pages from Teacher's Edition</p> <p>Directed Inquiry, Guided Inquiry, and Open Inquiry pages from Teacher's Edition</p> <p>Student projects</p> <p>Performance-based assessments</p> <p>"Inquiry" and STEM activities</p> <p>Chapter Tests</p> <p>Unit Benchmark Test</p> <p>Teacher-made tests and/or quizzes</p>		
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<p>S4.D.1.3.1/2/3/4</p> <p>S4.D.2.1 Identify basic weather conditions and how they are measured.</p> <p>S4.D.2.1.1/2/3</p> <p>S4.D.3.1 Describe Earth's relationship to the sun and the moon.</p> <p>S4.D.3.1.1/2/3</p>	<p>➤ What is the water cycle?</p> <ul style="list-style-type: none"> <li>• Students will demonstrate an understanding of the water cycle.</li> </ul> <p>➤ What are basic weather conditions and how are they measured?</p> <ul style="list-style-type: none"> <li>• Students will identify basic cloud types and make connections to basic elements of weather.</li> <li>• Students will identify weather patterns from data charts or graphs of the weather.</li> <li>• Students will identify appropriate instruments to study weather and what they measure.</li> </ul> <p><b>What are some patterns in space?</b></p> <p>➤ How does Earth move?</p> <ul style="list-style-type: none"> <li>• Students will describe how Earth revolves around the sun and rotates on its axis. Students will also describe how Earth's</li> </ul>				
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	<p>rotation is related to the apparent movement of the sun, moon, and stars.</p> <ul style="list-style-type: none"> <li>➤ How do star patterns change? <ul style="list-style-type: none"> <li>• Students will understand that patterns in the sky stay the same but appear to change nightly and throughout the year.</li> </ul> </li> <li>➤ What are the phases of the moon? <ul style="list-style-type: none"> <li>• Students will describe the phases of the moon.</li> </ul> </li> <li>➤ What is the solar system? <ul style="list-style-type: none"> <li>• Students will demonstrate an understanding that the sun, the planets and their moons, and other objects are part of the solar system.</li> </ul> </li> </ul>				
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