

Planned Course: Science		Course Number: -		Department: Elementary	
Unit: D (Physical Science)		Grade Level: 4		Date Approved: 8/19/2014	
Estimated Time: 6 weeks (of 18)		Level/Track: All Students			
PA Academic Standards	➤ Core Concepts (in question format) • Skills/Knowledge	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)		

<p>S4.A.1.3 Recognize and describe change in natural or human-made systems and the possible effects of those changes. S4.A.1.3.1/2/3</p> <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.C.1.1 Describe observable physical properties of matter. S4.C.1.1.1/2</p> <p>S4.C.2.1 Recognize basic energy types and sources, or describe how energy can be changed from one form to another. S4.C.2.1.1/2/3/4</p> <p>S4.C.3.1 Identify and describe different types of force and motion resulting from these forces, or the effect of the interaction between force and motion. S4.C.3.1.1/2/3</p>	<p>How can matter be described and measured?</p> <p>➤ What are properties of matter?</p> <ul style="list-style-type: none"> • Students will compare objects based on their physical properties and know that magnets attract and repel objects. <p>➤ How is matter measured?</p> <ul style="list-style-type: none"> • Students will demonstrate an understanding of how matter is measured. <p>➤ What are phases of matter?</p> <ul style="list-style-type: none"> • Students will understand that heating and cooling affects the motion of particles. <p>➤ What are mixtures?</p> <ul style="list-style-type: none"> • Students will explain how to separate mixtures. <p>➤ How does matter change?</p> <ul style="list-style-type: none"> • Students will demonstrate an understanding of how matter changes into materials with different characteristics. 	<p>Pearson <i>Interactive Science</i></p> <ul style="list-style-type: none"> • Chapters 7, 8, 9, and 10 <p>PearsonSuccessNet.com Interactive Digital Path</p> <ul style="list-style-type: none"> • videos, activities, etc. <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>How does energy cause change?</p> <ul style="list-style-type: none"> ➤ What are some forms of energy? <ul style="list-style-type: none"> • Students will define energy, know what forms it will take, and understand what it can do. ➤ What is sound energy? <ul style="list-style-type: none"> • Students will describe sound energy and explain how it is produced. ➤ What is light energy? <ul style="list-style-type: none"> • Students will describe how light bends when it passes through different materials. ➤ What is heat? <ul style="list-style-type: none"> • Students will recognize that heat flows from hot objects to cold ones and give examples of good and bad conductors of heat. <p>How are electricity and magnetism used?</p>		
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	<ul style="list-style-type: none"> ➤ What is static electricity? <ul style="list-style-type: none"> • Students will explain what static electricity is and how charged objects behave. ➤ How do electric charges flow in a circuit? <ul style="list-style-type: none"> • Students will describe how electricity is transferred in a circuit. ➤ How does electricity transfer energy? <ul style="list-style-type: none"> • Students will explain how energy changes form and how electricity is transformed into light and gives off heat. ➤ What is magnetism? <ul style="list-style-type: none"> • Students will describe how magnets can attract magnetic materials and attract and repel other magnets. ➤ How are electricity and magnetism formed? <ul style="list-style-type: none"> • Students will demonstrate an understanding of how electricity and 		
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	<p>magnetism can be changed.</p> <p>How can motion be described and measured?</p> <p>➤ What is motion?</p> <ul style="list-style-type: none"> • Students will understand how an object's mass affects the amount of force needed to move it and how Earth's gravity affects objects. <p>➤ What is speed?</p> <ul style="list-style-type: none"> • Students will find, describe, and graph the speed of an object. 		
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