

**SKILLS MAPPING**

**SCIENCE**

**GRADE 4**

<b>Timetable</b>	<b>Topic</b>	<b>Content</b>	<b>Skills</b>	<b>Performance Objective</b>	<b>Assessment</b>
<b>2 weeks</b>	<b>Physical Science Science Skill Advanced Measuring</b>	<b>Customary Measurement</b>	<b>Estimating and Measuring length to the nearest inch and fraction of an inch</b>  <b>Estimating and measuring capacity</b>  <b>Estimating and measuring weight</b>  <b>Measuring temperature</b>  <b>Changing units to compare measurements</b>	<b>4.3.1c 4.3.1d 4.3.1e</b>	<b>Tests and Quizzes</b>

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	<b>Physical Science</b>	<b>Metric Measurement</b>	<b>Estimating and Measuring length in metric units</b>  <b>Estimating and measuring capacity</b>  <b>Estimating and measuring weight</b>  <b>Measuring temperature</b>  <b>Changing units to compare measurements</b>	<b>4.3.1c</b> <b>4.3.2d</b> <b>4.3.1e</b>	<b>Test and Quizzes</b>

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<b>Timetable</b>	<b>Topic</b>	<b>Content</b>	<b>Skills</b>	<b>Performance Objective</b>	<b>Assessment</b>
<b>3 weeks</b>	<b>Living Environment Plants</b>	<b>Parts of a Plant</b>	<b>Identify the leaves, stem and roots</b>	<b>4.1.1 4.1.2 4.2.1 4.2.2</b>	<b>Chapter Test</b>
		<b>Leaves</b>	<b>Distinguish between a monocot and dicot plant</b>	<b>4.3.1 4.3.2 4.4.1 4.4.2 4.5.1 4.5.2 4.6.1 4.6.2</b>	
		<b>Stems</b>	<b>Distinguish between woody and green stems</b>  <b>Identify nodes</b>		

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	<b>Living Environment Plants</b>	<b>Roots</b>  <b>Plant Functions</b>	<b>Distinguish between taproot and fibrous roots</b>  <b>Identify root hairs and root tips</b>  <b>Identify Photosynthesis, xylem and phloem (leaves and stem functions)</b>	<b>4.1.1</b> <b>4.1.2</b> <b>4.2.1</b> <b>4.2.2</b> <b>4.3.1</b> <b>4.3.2</b> <b>4.4.1</b> <b>4.4.2</b> <b>4.5.1</b> <b>4.5.2</b> <b>4.6.1</b> <b>4.6.2</b>	<b>Chapter Test</b>

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	<b>Living Environment Plants</b>	<b>Plant Reproduction</b>	<b>Identifying the reproductive organs</b>  <b>Understanding the methods of pollination</b>  <b>Identifying the parts of the seed</b>	<b>4.1.1</b> <b>4.1.2</b> <b>4.2.1</b> <b>4.2.2</b> <b>4.3.1</b> <b>4.3.2</b> <b>4.4.1</b> <b>4.4.2</b> <b>4.5.1</b> <b>4.5.2</b> <b>4.6.1</b> <b>4.6.2</b>	<b>Chapter Test</b>

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<b>3 weeks</b>	<b>Living Environment Ecosystems</b>	<b>Getting Food</b>	<b>Identifying Producers and Consumers</b>  <b>Identifying Predators and Prey (herbivores, carnivores, decomposers, omnivores, scavengers)</b>	<b>4.1.1</b> <b>4.1.2</b> <b>4.2.1</b> <b>4.3.1</b> <b>4.3.2</b> <b>4.6.1</b> <b>4.6.2</b> <b>4.7.1</b>	<b>Chapter Test</b>

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				<b>Objective</b>	
	<b>Living Environment Ecosystems (cont.)</b>	<b>Food Webs</b>	<b>Understanding food chains and food webs</b>	<b>4.1.1</b> <b>4.1.2</b> <b>4.2.1</b>	<b>Chapter Test</b>
			<b>Observing environmental changes in the food web</b>	<b>4.3.1</b> <b>4.3.2</b> <b>4.6.1</b> <b>4.6.2</b>	
		<b>The Environment</b>	<b>Identifying habitat, population, communities, ecosystems, and succession</b>	<b>4.7.1</b>	
			<b>Understanding the effects of environment on living things</b>		
			<b>Explaining how materials are recycled in an ecosystem</b>		

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				<b>Objective</b>	
<b>2 weeks</b>	<b>Living Environment Animal Adaptations</b>	<b>Protective</b>	<b>Identify adaptations that help animals protect themselves (mimicry, hibernation, migration)</b>  <b>Identify response/ stimulus</b>	<b>4.3.1—Describe how the structures of animals complement their environment.</b>  <b>4.3.2—Observe that differences within a species may give individuals an advantage in surviving &amp; reproducing.</b>	
		<b>Finding Food</b>	<b>Identify ways animals get food</b>	<b>4.5.1—Describe basic life functions of common living specimens.</b>	



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<b>4-5 Weeks</b>	<b>Physical Science Solar System</b>  <b>Interdisciplinary Problem Solving</b>	<b>Earth</b>	<b>Understand Day/Night (rotation)</b>  <b>Understand seasonal changes (revolution)</b>	<b>4.1.1—Describe patterns of daily, monthly, &amp; seasonal changes in their environment.</b>  <b>7.1—The knowledge &amp; skills of math, sci., &amp; tech. are used together to make informed decisions &amp; solve problems.</b>	<b>Unit Test, Writing Activities, Observations, Experiments, Lab Performances</b>

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				<b>Objective</b>	
	<b>Interdisciplinary Problem Solving</b>	<b>Moon</b>	<b>Explain an eclipse</b>	<b>7.2—Solving interdisciplinary problems involves a variety of skills &amp; strategies (ex. realizing ideas, making connections among common themes, etc.)</b>	
			<b>Identify &amp; Understand the Moon’s phases</b>		
			<b>Describe the moon</b>		
		<b>Sun</b>	<b>Understand the sun is stationary</b>		
			<b>Classify the sun as a star</b>		
		<b>Planets</b>	<b>Identify in order from the sun</b>		
			<b>Interpret fact about each planet</b>		

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<b>5 Weeks</b>	<b>Physical Science Electricity</b>	<b>Static Electricity</b>  <b>Circuits</b>	<b>Show how matter becomes charged</b>  <b>Design Simple Circuit</b>  <b>Create &amp; Identify a model of a series circuit &amp; a parallel circuit</b>	<b>4.3.2-Describe chem. &amp; phys. changes inc. changes in state of matter</b>  <b>4.4.1-Describe a variety of forms of energy (heat, chem., light) &amp; the changes that occur in objects when they interact w/those energies</b>	<b>Unit test, Lab performances, Written Activities</b>

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	<b>Interdisciplinary Problem Solving</b>	<b>Resistance</b>  <b>Bulb Parts</b>	<b>Identify Resistance</b>  <b>Identify parts of a light bulb</b>	<b>7.2—Solving interdisciplinary problems involves a variety of skills &amp; strategies (gathering info., effective work habits, etc.)</b>	

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	<b>Physical Science</b>	<b>Polarity</b>	<b>Predict +--+ Or +-+-  Create a model</b>	<b>4.4.2-Observe the way 1 form of energy can be transformed into another form present in common situations (ex. chem to heat)</b>	

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	<b>Physical Science</b>	<b>Polarity</b>	<b>Predict +--+ Or +-+-  Create a model</b>	<b>4.4.2-Observe the way 1 form of energy can be transformed into another form present in common situations (ex. chem to heat)</b>	