

		<u>Science</u>	<u>Grade 5</u>	
		<u>Quarter 1</u>		
Content/ Resources	Skills	Related Skills/ Modifications	Vocabulary	Assessment
LIFE SCIENCES 5. L3U1.9: <u>Obtain, evaluate and communicate information about patterns between the offspring of plants, and the offspring of animals (including humans); construct an explanation of how genetic information is passed from one generation to the next.</u> <i>Suggested Resources:</i> •Traits and Genetics Student Workbook	<p>Genetic variation in sexual reproduction (in plants and animals, including humans).</p> <p>Complete and interpret Punnett squares.</p> <p>Use Punnett squares to calculate ratios of offspring types.</p>		<p>allele</p> <p>dominant</p> <p>gene</p> <p>genotype</p> <p>heterozygous</p> <p>homozygous</p> <p>dominant</p> <p>homozygous</p> <p>recessive</p> <p>offspring</p> <p>Punnett square</p> <p>ratio</p> <p>recessive</p> <p>trait</p> <p>community</p> <p>cycle</p> <p>ecosystem</p> <p>habitat</p> <p>population</p> <p>niche</p>	<p>Traits and Genes workbook: Building Traits project</p> <p>Traits and Genes workbook: Quiz 1</p> <p>Traits and Genes workbook: Create Punnett square</p> <p>Traits and Genes Workbook: Quiz 2</p>

<p>5.L3U1.10: <u>Construct an explanation</u> based on evidence that the changes in an environment can affect the development of the traits in a population of organisms.</p> <p><i>Resources:</i> Traits and Genetics Student Workbook - Human Involvement pages and animal adaptation project</p> <p>5.L4U3.11: <u>Obtain, evaluate and communicate evidence</u> about how natural & human-caused changes to habitat or climate can impact populations.</p> <p><i>Resources:</i> Traits and Genetics Student Work books - Human Involvement pages</p> <p>5.L4U3. 12: <u>Construct an argument based on evidence</u> that inherited characteristics can be affected by behavior and/or environmental conditions.</p> <p><i>Resources:</i> Traits and Genetics Student Workbook - Invasive species</p>	<p>How do genes & the environment affect growth?</p> <p>How are humans changing the environment and how does that affect how animals or plants grow?</p> <p>Climate Change, Deforestation, Coral Reef destruction</p> <p>Identify inherited & acquired traits.</p> <p>Inherited and acquired traits: use evidence to support a statement.</p> <p>How do genes and the</p>			<p>Traits and Genes workbook: Animal adaptation Project</p> <p>Traits and Genes workbook: Quiz 3</p> <p>Traits and Genes workbook: Unit Test</p>
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pages, Animal adaptation project	environment affect growth?			
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		<u>Science</u>	<u>Grade 5</u>	
		<u>Quarter 2</u>		
Content/Resources	Skills	Related Skills/Modifications	Vocabulary	Assessment
PHYSICAL SCIENCE 5.P1U1.1: <u>Analyze and interpret data</u> to explain that matter of any type can be subdivided into particles too small to see and, in a closed system, if properties change or chemical reaction occurs, the amount of matter stays the same.	Identify reactants and products. Count atoms and molecules in chemical reactions. Calculate amounts of reactants or products in chemical reactions. Identify reactants and products.		atom concentrated compound dilute electron element neutron proton saturated	Inspire Science Module 1 Lesson Checks
5.P1U1.2: <u>Plan and carry out investigations</u> to demonstrate that some substances combine to form new substances with different properties and others can be mixed without taking on new properties.	Count atoms & molecules in chemical reactions. Calculate amounts of reactants and products in chemical reactions. Explore chemical structure & properties: soapmaking.		chemical chemical change combustion equation physical change polymer product reactant	Inspire Science Module 1 Lesson Checks, Module 1 Test

<p><i>Resources:</i></p> <p>Science Fair Project</p>	<p>Explore chemical structure & properties: food flavors.</p> <p>Review expectations and project requirements</p> <p>Discuss and schedule project deadlines and final project due date.</p>		<p>analysis conclusion constants control data</p> <p>dependent variable</p> <p>experiment hypothesis</p> <p>independent variable</p> <p>materials procedures science fair</p> <p>scientific method results</p>	
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		<u>Science</u>	<u>Grade 5</u>	
		Quarter 3		
Content/ Resources	Skills	Related Skills/ Modifications	Vocabulary	Assessment
PHYSICAL SCIENCE 5.P2U1.3: <u>Construct an explanation</u> using evidence to demonstrate	<p>Identify magnets that attract or repel.</p>		<p>acceleration equilibrium force inertia machine</p>	<p>Newtons Cradle Stem Project</p> <p>Module 2 Lesson Checks, Module 2 Test, Module 4 Lesson Checks, Module 4 Test</p>

<p>that objects can affect other objects even when they are not touching. <i>Resources:</i> <i>Inspire Module 2 Lesson 1</i> <i>(Role of gravity)</i></p> <p>5.P3U1.4: Obtain, analyze, and communicate evidence of the effects that balanced and unbalanced forces have on the motion of objects.</p> <p><i>Resources:</i> <i>Inspire Unit 1 Lesson 1</i> <i>(Forces and Motion)</i></p> <p><i>Suggested Language Objective:</i></p> <ul style="list-style-type: none"> •Write a research paper about a person that has made important contributions in science. (5.W.7 - Writing) •Create a chart that describes the changes in physical and chemical states of matter. (5.W.8 - Writing) •Write about the qualities 	<p>Label magnets that attract or repel.</p> <p>Compare magnitudes of magnetic forces.</p> <p>How do balanced and unbalanced forces affect motion?</p>		<p>power velocity work</p> <p>conduction convection electromagnetic radiation energy kinetic energy potential energy thermal energy</p>	<p>Suggested Projects:</p> <p>Research project/paper</p> <p>PowerPoint/ Slides Presentations</p>
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<p>needed to be a successful scientist. (5.W.9)</p> <p><i>Suggested Supporting Question:</i></p> <p>•What determines whether something is a mixture or a compound?</p> <p>5.P3U2.5: <u>Define problems and design solutions</u> pertaining to force and motion. <i>Resources:</i></p> <p><i>Resources:</i> <i>Inspire Module Unit 1 Lesson 2,3(Forces and Motion)</i></p> <p>5.P4U1.6: Analyze and interpret data to determine how and where energy is transferred when objects move.</p> <p><i>Resources:</i></p> <p><i>Resources:</i> <i>Inspire Unit 1 Lesson 4 (Energy Transfer in Collisions)</i></p>			<p>circuit diagram conductor current electromagnetic insulator resistor volt</p> <p>biomass geothermal hydroelectric solar energy wind energy</p>	
	<p>Explore energy transformations : roller coaster ride</p> <p>Explore energy transformations : bike ride</p>			

		<u>Science</u>	<u>Grade 5</u>	
		<u>Quarter 4</u>		
Content/ Resources	Skills	Related Skills/Modifications	Vocabulary	Assessment
<p>5.E2.U1.7:</p> <p><u>Develop, revise and use models based on evidence to construct explanations about the movement of the Earth and Moon within our solar system.</u></p> <p>5.E2U1.8:</p> <p>Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.</p> <p><i>Suggested Resources:</i> Inspire science Module: Earth's Patterns and Movement (Unit 4) and Module: Earth and Space (Unit 4)</p>	<p>Analyze models of the Earth, Sun, Moon system.</p> <p>Identify phases of the moon.</p> <p>What causes the seasons on Earth?</p>	<p>Student Planet Report- Super Teachers Worksheets https://drive.google.com/file/d/1NG1y26z45TJRRxrd9JXxRcMN6vyyyBw/view?usp=sharing https://solarsystem.nasa.gov/planets/overview/ https://www.calendarrhuzz.net/moon-p</p>	<p>asteroid axis black hole constellation comet galaxy light-year moon phase nebula revolution rotation satellite solar system space probe supernova</p>	<p>Inspire Science Module: Earth's patterns and Movement (unit 4 assessment)</p> <p>Module: Earth and Space (unit 4 assessment)</p> <p>Project ideas:</p> <p>Research project/paper</p> <p>PowerPoint/Slides</p>

<p><i>Suggested Language Objectives:</i></p> <ul style="list-style-type: none"> •Analyze and publish your findings from your research of the moon phases. (5.W.9 - Writing) •Write an informational report on a planet in our solar system. (5.W.2- Writing) <p><i>Suggested Supporting Question:</i></p> <ul style="list-style-type: none"> •How will objects of different size and density fall to the earth differently? •What different types of matter are the different planets made of? 		hase-calendar-worksheet/		<p>Presentations</p> <p>Create 3D models & present</p>
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