

Grade 5 – Science Pacing Calendar

[Newsela: Seasonal STEAM Projects](#)

	Week 1	Week 2	Week 3	Week 4
<p>September</p> <p>Toys Matter (8 weeks) Start: 9/8/25</p> <p>Password: Bounce26</p> <p>Sept. 29th: Benchmark</p>	<p>Beginning of the Year Assessments</p> <p>Newsela Link: Engineering Design Process</p> <p>Newsela link Science Claim-Evidence-Reasoning Activities</p> <p>Lab Safety</p>	<p><u>Structure + Props of Matter:</u></p> <p>5-PS1-1: Develop a model to describe that matter is made of particles too small to be seen.</p> <p>The States of Matter: Solids, Liquids, + Gases and the position of their particles</p> <p>Newsela link</p> <p><u>Generation Genius:</u> Particle nature of matter</p> <p>Activity: Measurements - Mass, Volume, + Weight</p>	<p><u>Structure + Props of Matter:</u></p> <p>5-PS1-3: Make observations and measurements to identify materials based on their properties</p> <p>Properties of matter</p> <p>Newsela link</p> <p><u>Generation Genius:</u> Properties of matter</p>	<p><u>Structure + Props of Matter:</u></p> <p>5-PS1-3: Make observations and measurements to identify materials based on their properties</p> <p>The Phases of Matter: Freezing <--> Melting. How does adding or removing heat affect the state of matter?</p> <p><u>Generation Genius:</u> Heating and cooling</p> <p>Science Benchmark</p>
<p>October</p>	<p><u>Structure + Props of Matter:</u></p> <p>5-PS1-4: Conduct an investigation to determine whether the mixing of two or more substances results in new substances</p> <p>Physical + Chemical Changes (Chemical reactions)</p> <p>Newsela link</p> <p><u>Generation Genius:</u> Physical vs Chemical Changes</p>	<p><u>Structure + Props of Matter:</u></p> <p>5-PS1-2: Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved.</p> <p>The Law of Conservation of Matter</p> <p>Newsela link</p> <p><u>Generation Genius:</u> Conservation of matter</p>	<p><u>Structure + Props of Matter:</u></p> <p>Literacy: (Descriptive Essay) Develop an essay explaining how Matter changes as a result of the structure and properties of atoms.</p> <p>Newsela link</p>	<p>NYS Elementary- Level Science Investigation</p> <p>Structure and Properties of Matter: What's in the Bag?</p> <p>Toddle reflections</p>

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<p>November</p> <p>Deer, Deer Everywhere! (8 weeks) Start: 11/17/25</p> <p>Password: Population26</p> <p>Nov. 13th: STEM Night</p>	<p>STEM Projects</p>	<p>STEM Night November 13</p> <p>Matter + Energy in Organisms: Generation Genius: Animals need food</p> <p>Generation Genius: How do we use food?</p>	<p>Matter + Energy in Organisms:</p> <p>5-LS1-1: Support an argument that plants get the materials they need for growth chiefly from air and water.</p> <p>Plants get materials from air and water</p> <p>Newsela link</p> <p>Generation Genius: Plants need water and light</p>	<p>Matter + Energy in Organisms:</p> <p>5-LS2-1: Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.</p> <p>5-PS3-1: Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.</p> <p>Energy and matter move between organisms</p> <p>Food Chains, Webs, + Energy Pyramids</p> <p>Newsela link</p> <p>Generation Genius: Food webs: cycling of matter + flow of energy</p> <p>Activity: Research an organism and model their movement of energy in a Food Web. Present your model in either a diorama or using string and display board.</p> <p>Literacy: (Narrative Essay) Develop a story of a made-up character who goes through an adventure where he/she survives by navigating a food web to find food and avoid being prey.</p>

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December Got Water? (7 weeks) Start: 12/1/25 Password: Conserve26	<u>Matter + Energy in Ecosystems:</u> 5-ESS3-1: Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment. Environmental Matters	<u>Matter + Energy in Ecosystems:</u> Living things + their environment Newsela link	<u>Matter + Energy in Ecosystems:</u> Competition in ecosystems <u>Generation Genius:</u> Competition in ecosystems	Holiday Recess School Closed
January	Holiday Recess School Closed	<u>Matter + Energy in Ecosystems:</u> 5-ESS3-1: Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment. Organisms change their ecosystems Newsela link <u>Generation Genius:</u> Living things changes their environment	<u>Matter + Energy in Ecosystems:</u> Literacy: (Augmentative Essay) Reseach invasive species and how it affects the environment. Develop an argument that even though it's invasive, it contributes to the environment in some way. Toddle Reflections	<u>Earth's Systems:</u> 5-ESS2-1: Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. Interaction of geosphere, biosphere, hydrosphere, and/or atmospheric interactions. Newsela link <u>Generation Genius:</u> Interactions of earth's spheres
February	STEM Engineering Project: Design a Flood Proof House	STEM Engineering Project: Design a Flood Proof House	Winter Recess School Closed	<u>Earth's Systems:</u> Water in earth's systems Newsela link <u>Generation Genius:</u> Water quality + distribution

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<p>March</p> <p>Mar 23rd: Gr 5 Benchmark</p>	<p>Earth's Systems:</p> <p>Newsela link</p> <p>Research: Earth's water sources – Distribution of water</p> <p>Literacy: (Research Essay) Research a project and develop a detailed explanation of how you intend to create it. Explain how it will contribute to the environment of an organism(s). Use this info to brainstorm your STEAM project.</p>	<p>Earth's Systems:</p> <p>4-ESS2-1: Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.</p> <p>Earth's water sources – Water shaping the land</p> <p>Newsela link</p> <p>Research: Compare + contrast the amount of fresh and salt water in 2 reservoirs</p>	<p>Earth's Systems:</p> <p>NYS Elementary – Level Science Investigation</p> <p>Weather And Climate: Cloud in a Bottle (Make-up lab)</p> <p>Toddle Reflections</p>	<p>Earth's Systems:</p> <p>4-ESS3-2: Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.</p> <p>Earth's resources and human activities</p> <p>Getting + using resources</p> <p>Literacy: Write a poem to explain how we should protect our planet. (Choose the type of poem)</p> <p>(Begin) EARTH DAY PROJECTS</p> <p>Generation Genius: Getting to a resource</p>
<p>April</p> <p>Earth and Space Explorers (9 weeks) Start: 4/27/26</p> <p>Password: Shadows26</p> <p>April 22-24: Earth Day Celebrations</p>	<p>Earth's Systems:</p> <p>Protecting the environment Reduce, Reuse, Recycle</p> <p>Work on EARTH DAY PROJECTS (complete over the vacation)</p> <p>Lab Make-ups</p>	<p>Spring Recess School Closed</p>	<p>Earth's Systems:</p> <p>EARTH DAY PROJECTS:</p> <p>Earth Day – April 22, 2026</p> <p>Gallery walks + Celebrations</p> <p>NYS Elementary – Level Science Investigation</p> <p>Lab Make ups:</p> <ul style="list-style-type: none"> • Circle of Life • Cloud in a Bottle • Light it Up • What's in the Bag? 	<p>Earth's Systems:</p> <p>5-PS2-1: Support an argument that the gravitational force exerted by Earth on objects is directed down.</p> <p>The effects of gravity</p> <p>Newsela link</p> <p>Generation Genius: Gravitational forces between objects</p> <p>Science Benchmark Grade 5 Mock Exams</p>

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<p>May</p> <p>May 12th CBT Science Assessment</p> <p>May 13th STEM Night</p>	<p><u>Space Systems: Starts + the Solar System:</u></p> <p>5-ESS1-1: Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.</p> <p>The Sun vs Stars – Brightness + Size based on distance</p> <p>Newsela link</p> <p><u>Generation Genius:</u> Sun and other stars</p> <p>NYS Assessments</p>	<p><u>STEM Night</u> May 13, 2025</p> <p><u>Space Systems: Starts + the Solar System:</u></p> <p>5-ESS1-2: Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and seasonal appearance of some stars in the night sky.</p> <p>4-PS4-3: Generate and compare multiple solutions that use patterns to transfer information.</p> <p>3-PS2-2: Make observations and/or measurements of an object’s motion to provide evidence that a pattern can be used to predict future motion.</p> <p>Newsela link</p> <p><u>Generation Genius:</u> Earth’s orbit and rotation</p> <p>Grade 5 CBT NYS Assessments</p>	<p>End of Year Assessments</p> <p>Literacy: Create a journal explaining your science experiences this year. Connect your experiences to specific content covered.</p>	<p>End of Year Assessments</p> <p>Toddle reflection</p> <p>Movie: Moana</p> <p>Newsela link</p>
<p>June</p>	<p>End of Year Assessments</p> <p>Literacy: Journal entry</p>	<p>End of Year Assessments</p> <p>Literacy: Journal entry</p>	<p>End of Year Activities</p>	<p>End of Year Activities</p>