Grade 1 Science Pacing Calendar

Newsela: Seasonal STEAM Projects

(Grade 1)	Week 1	Week 2	Week 3	Week 4
September **A Bunny's Life (10 weeks) Start: 9/8/25** **Password: Patterns26**	Beginning of the Year Assessments *Standard:* **K-2-ETS1-1** – Ask questions, make observations, and gather information about a situation people want to change to define a simple problem. **Newsela Link:** Engineering Design Process **Newsela link**: Science Claim-Evidence-Reasoning Activities Lab Safety	**Structure, Function, and Information Processing** *Standard:* **1-LS1-1** – Use materials to design a solution to a human problem by mimicking how plants use their external parts to help them survive, grow, and meet their needs. **Plant Parts** **Generation Genius:** Parts of a plant **Newsela:** At this school in Arizona, kids grow food and give it to the community (newsela.com)	**Structure, Function, and Information Processing** *Standard:* **1-LS1-1** – Use materials to design a solution to a human problem by mimicking how plants use their external parts to help them survive, grow, and meet their needs. **Animal Parts** **Generation Genius:** External animal parts **Newsela:** Animal senses (newsela.com)	**Structure, Function, and Information Processing** *Standard:* **1-LS1-1** – Support a claim with evidence that the structures of different organisms help them survive in their environments. **Foldable:** Research an organism and present a claim that its parts can help it survive well, less, or not at all in their environment. **Newsela:** Special adaptations help prey animals play it safe (newsela.com) Big Questions: Why is polar bear hair so fair? (newsela.com) Big Questions: Ever wondered how animals beat the heat? (newsela.com) Prickly echidnas stay cool by blowing snot bubbles in Australia (newsela.com) **Science Benchmark**

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October **Sending Messages with Light + Sound (14 weeks)** **Start:10/13/25** **Password: Kazoo26**	**Structure, Function, and Information Processing** *Standard:* **1-LS1-2** – Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. **Activity:** Like Parent, like offspring? (see activity sheet) **Generation Genius:** Animals help their babies survive. **Research:** Use text and media to determine patterns in behavior of parents and offspring that help offspring survive. **Literacy:**(Descriptive) Write a paragraph explaining how your parent/guardian helps you survive. Toddle reflections	**Waves: Light and Sound** *Standard:* **1-PS4-2** – Make observations to construct an evidence-based account that objects can be seen only when illuminated. **Light** **Generation Genius:** Introduction to light **Newsela:** Light changes how we see objects (newsela.com)	**Waves: Light and Sound** *Standard:* **1-PS4-1** – Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. **Sound** **Generation Genius:** Introduction to sound **Newsela:** The three things you need to make sound (newsela.com)	**Waves: Light and Sound** *Standard:* **1-PS4-4** – Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. **Generation Genius:** Communication over distances **Engineering:** Create an instrument using materials in your home that plays sound **Newsela:** Making waves: Two sound wave experiments (newsela.com) Toddle reflections
November **Sky Patterns (8 weeks)** **Start: 11/24/25** **Password: Mission26**	*Standard:* **1-PS4-4** – Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. **STEM Projects:** Build an instrument	**STEM Night:** **November 13, 2025**	**Space Systems: Patterns and Cycles** *Standard:* **1-ESS1-1** – Use observations of the sun, moon, and stars to describe patterns that can be predicted. **Patterns in the sky** **Generation Genius:** Patterns in the sky **Newsela:** Hello, sunshine! (newsela.com)	**Space Systems: Patterns and Cycles** *Standard:* **1-ESS1-2** – Make observations at different times of year to relate the amount of daylight to the time of year. **Patterns of daylight** **Generation Genius:** Four seasons and day length **Newsela:** When it's spring (newsela.com) Hello, sunshine! (newsela.com) Space Systems: The sun (newsela.com)

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December	**Space Systems: Patterns and Cycles** *Standard:* **1-ESS1-1** – Use observations of the sun, moon, and stars to describe predictable patterns. *Standard:* **1-ESS1-2** – Relate the amount of daylight to the time of year using observations. **Engineering:** Create a diorama of different patterns in the sky. Use lights to make it shine. **Newsela:** To learn about space, look up! (newsela.com) **Field Trip**: **ELA Integration** – Writing to support scientific reflection. Cradle of Aviation **Literacy:** (Descriptive) Write a descriptive essay of your trip to Cradle of Aviation. Make sure to include specific details of the exhibits your visited. If possible, take pictures and create a pictorial cover sheet of your experience.	*Standard:* **K-2-ETS1-2** – Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. **STEM Activity:** Build a Santa Sleigh Ramp **Newsela:** Building with big machines (newsela.com) Early cars were not so speedy (newsela.com)	*Standard:* **K-2-ETS1-2** – Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. **STEM Activity:** Build a Santa Sleigh Ramp **Class Competition:** Whose sleigh moves faster down their ramp?	Holiday Recess School Closed
January	Holiday Recess School Closed	*Standard:* **K-2-ETS1-2** – Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function. **STEM Activity:** Snow Shelter Challenge **Newsela:**	*Standard:* **K-2-ETS1-2** – Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function. **STEM Activity:** Snow Shelter Challenge	*Standard:* **K-2-ETS1-3** – Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. **STEM Activity:** Snow Shelter Challenge **Class Competition:** Whose structure worked the best?

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		Building a new school (newsela.com)		
February	*Standard:* **K-2-ETS1-2** – Develop a simple model that functions as a solution to a problem. **STEM Activity:** Heart Towering Engineering	*Standard:* **K-2-ETS1-2** – Develop a simple model that functions as a solution to a problem. **STEM Activity:** Heart Towering Engineering	Winter Recess School Closed	*Standard:* **K-2-ETS1-3** – Analyze data to compare the performance of different design solutions. **STEM Activity:** Heart Towering Engineering **Class Competition:** Which structure is the sturdiest?
March	*Standard:* **1-ESS3-1** – Identify ways people can reduce their impact on the environment and natural resources. **Generation Genius:** Reducing our impact on earth	*Standard:* **1-ESS3-1** – Identify ways people can reduce their impact on the environment and natural resources. **Literacy:** Write a poem to explain how we should protect our planet. (Choose the type of poem)	*Standard:* **1-ESS3-1** – Communicate solutions that reduce human impact on the land, water, air, and other living things. **EARTH DAY PROJECTS** Research: Discuss how you can use household items and repurpose them into something else (Classroom Flipping Project)	*Standard:* **1-ESS3-1** – Demonstrate ways to reuse or repurpose items to reduce waste. **EARTH DAY PROJECTS** Build: Make and decorate your repurposed objects
April	*Standard:* **1-ESS3-1** – Demonstrate ways to reuse or repurpose items to reduce waste. **EARTH DAY PROJECTS** Build: Make and decorate your repurposed objects Complete your display board explaining your project	Spring Recess School Closed	**EARTH DAY PROJECTS** **April 22, 2026** **Earth Day celebration** **Building gallery walk** Toddle Reflections	*Standard:* **1-ESS3-1** – Make observations of human impact and brainstorm solutions. **Field Trip:** Nature Walk
May	Standard: **1-ESS3-1** – Extend understanding of human environmental impact. **STEM Project:** Build upon your repurposed object.	Standard: **K-2-ETS1-3** – Evaluate and improve a design based on performance data. **STEM Project** display boards **STEM Night: May 19, 2025**	**Literacy:** (Reflective**)** on your science experiences this year. Connect your experiences to specific content covered.	**Literacy:** (Reflective**)** on your science experiences this year. Connect your experiences to specific content covered.
June	**End of year activities**	**End of year activities**	**End of year activities**	**End of year activities**