

Science Domain	Storyline	NGSS* Topic	Performance Expectations	Time Estimate
Physical Science	<p><u>Describing Matter and How It Changes</u></p> <p>In this Storyline, students develop an understanding of how the unique, observable properties of matter can be used to identify different materials, and they use models to recognize that all matter is made up of particles too small to be seen. Students discover through investigation that the weight of matter stays constant even when it mixes with other types of matter or changes state. They also gather evidence supporting the idea that mixing substances sometimes forms a new substance.</p>	Structure and Properties of Matter	5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4	Lesson 1: 5–8 days Lesson 2: 6–10 days Lesson 3: 5–8 days Lesson 4: 6–10 days TOTAL: 20–35 days
Life Science	<p><u>Energy and Matter in the Living World</u></p> <p>In this Storyline, students develop an understanding of how energy flows and matter cycles through food webs. They explore how plants use energy from the Sun to produce matter that serves as the basis for many food webs. Students also learn that the energy and matter stored in plants is transferred to primary consumers, secondary consumers, and tertiary consumers, and that even the energy used by top predators in an ecosystem can be traced back to the Sun.</p>	Matter and Energy in Organisms and Ecosystems	5-PS3-1 5-LS1-1 5-LS2-1	Lesson 1: 5–8 days Lesson 2: 4–7 days Lesson 3: 4–7 days Lesson 4: 5–8 days Lesson 5: 5–9 days TOTAL: 20–40 days
Earth and Space Science	<p><u>Water's Role in Earth's Spheres</u></p> <p>In this Storyline, students develop an understanding of how the hydrosphere, geosphere, atmosphere, and biosphere interact during various steps of the water cycle. Students also recognize the ways in which people can both negatively and positively impact the water cycle, including how communities can take action to protect water resources.</p>	Earth's Systems	5-ESS2-1 5-ESS2-2 5-ESS3-1	Lesson 1: 7–10 days Lesson 2: 6–10 days Lesson 3: 5–9 days Lesson 4: 6–10 days Lesson 5: 5–8 days Lesson 6: 8–10 days TOTAL: 35–55 days
Earth and Space Science	<p><u>Earth, Sun, and Stars</u></p> <p>In this Storyline, students develop an understanding of how gravity affects objects on Earth. They explore the effects that Earth's shape, rotation, and orbit have on the number of daylight hours, length and direction of shadows, and seasonal appearance of stars in the night sky. Students also develop an understanding of why the apparent brightness and size of stars varies from small and dim to large and very bright.</p>	Space Systems: Stars and the Solar System	5-PS2-1 5-ESS1-1 5-ESS1-2	Lesson 1: 5–8 days Lesson 2: 5–8 days Lesson 3: 6–9 days Lesson 4: 6–9 days Lesson 5: 6–9 days Lesson 6: 7–9 days TOTAL: 35–50 days

NOTE: One "day" represents a typical classroom session of 45–60 minutes.