

Science Domain	Storyline	NGSS* Topic	Performance Expectations	Time Estimate
<b>Physical Science</b>	<p style="text-align: center;"><b><u>Pushes and Pulls</u></b></p> <p>In this Storyline, students develop an understanding of the cause-and-effect relationship between the strength of a push or pull and how fast and far an object will move. Students also investigate how the direction of a push or pull affects the direction of an object's motion. Finally, they use this knowledge to plan and build a design to change the motion of an object by varying the strengths and directions of pushes and pulls on the object.</p>	<b>Forces and Interactions: Pushes and Pulls</b>	K-PS2-1 K-PS2-2 K-2-ETS1-1	Lesson 1: 6–10 days Lesson 2: 10–15 days Lesson 3: 10–15 days TOTAL: 25–40 days
<b>Life Science</b>	<p style="text-align: center;"><b><u>Living Things and the Places Where They Live</u></b></p> <p>In this Storyline, students develop an understanding of what plants and animals, including people, need to survive and how they get what they need from the places where they live. Students apply their knowledge to propose ways of protecting living things and their habitats.</p>	<b>Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment</b>	K-LS1-1 K-ESS2-2 K-ESS3-1 K-ESS3-3	Lesson 1: 6–10 days Lesson 2: 15–20 days Lesson 3: 5–9 days Lesson 4: 4–8 days Lesson 5: 6–10 days Lesson 6: 8–15 days TOTAL: 40–70 days
<b>Earth and Space Science</b>	<p style="text-align: center;"><b><u>Sunlight and Weather</u></b></p> <p>In this Storyline, students develop an understanding of the warming effect sunlight has on materials at Earth's surface, and then design structures to reduce that effect on objects. They observe and analyze patterns in weather data over time and also learn about several types of severe weather, its effects, and where it is most likely to happen. Finally, students discuss how people rely on weather forecasts and warnings to prepare for and stay safe during severe weather.</p>	<b>Weather and Climate</b>	K-PS3-1 K-PS3-2 K-ESS2-1 K-ESS3-2 K-2-ETS1-1	Lesson 1: 5–9 days Lesson 2: 10–15 days Lesson 3: 15–25 days <sup>†</sup> (Students collect weather data for an additional month.) Lesson 4: 5–9 days Lesson 5: 7–10 days TOTAL: 40–70 days

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

<sup>†</sup> This lesson requires additional time to complete a long-term investigation. During this time, students can work on other aspects of the Storyline, use other resources from Science A–Z units, or engage in other scientific investigations.