

Science Domain	Storyline	NGSS [†] Topic	Performance Expectations	Time Estimate
Physical Science	<p><u>The Effects of Forces on Objects</u></p> <p>In this Storyline, students develop an understanding of how equal and unequal forces affect the motion of objects and that some forces, including gravity and magnetism, can act on objects without coming into contact with them. Using this property and the other unique properties of magnets, students define a problem that can be solved using magnets.</p>	Forces and Interactions	3-PS2-1 3-PS2-2 3-PS2-3 3-PS2-4	Lesson 1: 6–9 days Lesson 2: 4–8 days Lesson 3: 4–7 days Lesson 4: 5–9 days Lesson 5: 5–9 days TOTAL: 25–40 days
Life Science	<p><u>Organisms and the Environment</u></p> <p>In this Storyline, students develop an understanding of how scientists make observations and inferences about fossils to learn about past organisms and environments. They explore the adaptations of organisms, including group behavior, that help them survive in their environment. Students discover that sometimes the environment changes in ways that cause organisms to adapt, move to a new location, or go extinct. Finally, students explore design solutions aimed at helping plants and animals survive when their environment changes.</p>	Interdependent Relationships in Ecosystems	3-LS2-1 3-LS4-1 3-LS4-3 3-LS4-4	Lesson 1: 7–10 days Lesson 2: 6–10 days [†] (Students also complete a 2–3 week investigation.) Lesson 3: 7–10 days Lesson 4: 5–8 days Lesson 5: 6–10 days TOTAL: 30–50 days
Life Science	<p><u>Life Cycles and Traits of Living Things</u></p> <p>In this Storyline, students develop an understanding of life cycles by investigating and comparing plant and animal life cycles, as well as identifying similar patterns in all life cycle models. They observe and analyze patterns of traits between parents and offspring and investigate variation of traits among individuals of the same species. Students then explore the environment's influence on the traits of living things and how the variation of traits within a species may provide advantages for survival.</p>	Inheritance and Variation of Traits: Life Cycles and Traits	3-LS1-1 3-LS3-1 3-LS3-2 3-LS4-2	Lesson 1: 5–9 days [†] (Students also complete a 3-month investigation.) Lesson 2: 5–9 days Lesson 3: 4–8 days Lesson 4: 4–7 days Lesson 5: 5–9 days TOTAL: 20–40 days
Earth and Space Science	<p><u>Weather Around the World</u></p> <p>In this Storyline, students develop an understanding of daily and yearly weather patterns by collecting and analyzing weather data and using that data to make predictions. They learn about climate zones and how an area's location on Earth affects its climate. They research severe weather, including where it happens around the world and its effect on people, and then apply this understanding to design a solution aimed at reducing the impact of a weather-related hazard.</p>	Weather and Climate	3-ESS2-1 3-ESS2-2 3-ESS3-1	Lesson 1: 7–10 days [†] (Students collect weather data for an additional 1–2 weeks.) Lesson 2: 5–8 days Lesson 3: 7–10 days Lesson 4: 8–10 days Lesson 5: 8–10 days TOTAL: 35–50 days

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

[†] 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.

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