

Lansing School District Fourth Grade Science Year-At-A-Glance Expected Pacing

Quarter	Dates	Amplify Core Content Unit One: Energy Conversions
Q1	Aug. 28-31	Community building/routines/procedures
	Sept. 5-8	Energy Conversions: Lessons 1-2
	Sept. 11-15	Energy Conversions: Lessons 3-4
	Sept. 18-22	Energy Conversions: Lessons 5-6
	Sept. 25-29	Chapter 2: What makes the devices in Ergstown output or fail to output energy? Lessons: 2.1 (Energy Converters), 2.2 (Energy Past and Present), and Energy in the System
	Oct. 2-6	Lesson: 2.4 (Design Arguments About Devices) Chapter 3: Where does the electrical energy for the devices in Ergstown come from? Lessons: 3.1 (Investigating Energy Sources), 3.2 (Converting Energy from Sources)
	Oct. 9-13	Lessons: 3.3 (Sunlight and Showers), 3.4 (Designing a Wind Turbine), 3.5 (Redesigning Wind Turbines) and Design Arguments About Converters)
	Oct. 16-20	Chapter 4: How does energy get to the devices all over Ergstown? Lessons: 4.1 (Blackout!), 4.2 (Investigating System Failure), 4.3 (Improving the Electrical Grid)
	Oct. 23-27	Lessons: 4.4 (System Improvements), 4.5 (Arguments for System Improvements) and 4.6 (End-of-Unit Assessment)
	Oct. 30-3	Flex Week- To be used to catch up on pacing, reteach science content or additional math time.

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Quarter	Dates	Amplify Core Content Unit Vision and Light (22 Lessons)
Q2	Nov. 6-10	Chapter 1: How does a Tokay Gecko get information about its environment? Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Introducing Animal Senses) 1.3 (Investigating Animal Senses), and Lessons 1.4 (Exploring How Animals Survive)
	Nov. 13-17	Chapter 2: How does light allow a Tokay Gecko to see its prey? Lesson 2.1 (Investigating Light), 2.2 Modeling Ideas About Light, and 2.3 (I See What You Mean)
	Nov. 20-24*	Thanksgiving Break
	Nov. 27-1	Lessons: 2.4 (Reviewing Models About Vision and Light), and 2.5 (Explaining How Light Allows an Animal to See)
	Dec. 4-8	Chapter 3: How does a Tokay Gecko know that it is looking at its prey? Lessons: 3.1 (Exploring Animal Eye Structures), 3.2 (Crow Scientist) and 3.3 (Investigating Information Processing)
	Dec. 11-15	Lessons: 3.4 (Investigating How Animals React to Information) and 3.5 (Explaining How Animals Recognize Prey)
	Dec. 18-22	Chapter 4: How could more light at night make it hard for a Tokay Gecko to see its prey? Lessons: 4.1 (Seeing Like a Shrimp and Smelling Like a Sake) and 4.2 (Investigating What Different Animals See)
	Dec. 25-29	Winter Break
	Jan. 1-5	

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Quarter	Dates	Amplify Core Content Unit Vision and Light Cont.
Q2	Jan. 8-12	Lessons: 4.3 (Investigating Receptor Sensitivity), 4.4 (Preparing to Build a Model)
	Jan. 15-19	Lessons: 4.5 (Building and Explaining Models) and 4.6 (End of Unit Assessment)

Lansing School District: Fourth Grade Science Year-At-A-Glance Expected Pacing

Quarter	Dates	Amplify Core Content Unit Vision and Light Cont. Earth's Features (22 Lessons)
Q3	Jan. 22-26	Chapter 5: How do our senses help us understand our environment? Lessons: 5.1 (Planning an Investigation of Your Senses) and 5.2 (Conducting Investigations and Sharing Results)
	Jan. 29-Feb. 2	Unit:Earth's Features Chapter 1: How did the fossil get inside the rocky outcrop? Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Clues from the Past) and 1.3 (Fossil Formation)
	Feb. 5-9	Lessons: 1.4 (Sedimentary Rock Formation), 1.5 (Modeling Sedimentary Rock Formation), and 1.6 (Writing a Scientific Argument)
	Feb. 12-16	Chapter 2: What was the environment of Desert Rocks National Park like in the past? Lessons: 2.1 (Through the Eyes of a Geologist), 2.2 (Exploring Rock Formation and Environment) and 2.4 (Layers in a Rocky Outcrop)
	Feb. 19-23	Lessons: 2.5 (Making Inferences About Fossils) and 2.6 (Writing an Argument About Past Environments) Chapter 3: What is the order of the past environments of Desert Rocks National Park? Lesson 3.1 (Rock Layers)
	Feb. 26-Mar. 1	Lessons 3.2 (Ordering Rock Layers), and 3.3 (Arguing to Solve a Mystery)
	Mar. 4-8	Lessons: 3.4 (Environmental Change) and 3.5 (Students' Arguments)

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Quarter	Dates	Amplify Core Content Unit: Earth's Features Cont.
Q3	Mar. 11-15	Chapter 4: Why did more rock layers get exposed in Desert Canyon than Keller's Canyon? Lessons: 4.1 (Rocky Wonders), and 4.2 (Exposing Rock)
	Mar. 18-22	Lessons: 4.3 (Modeling Erosion:Time), 4.4 (Modeling Erosion: Speed) and 4.5 (Students' Arguments)
	Mar. 25-29	Spring Break
	April 1-5	Flex week Used to catch-up with pacing, re-teach, and review.

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Quarter	Dates	Amplify Core Content Unit: Waves, Energy, and Information
Q4	April 8-12	Chapter 1: How does a mother dolphin communicate with her calf across a distance? Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Exploring Waves), and 1.3 (Warning:Tsunami!)
	April 15-19	Lessons: 1.4 (Exploring Sound Waves) and 1.5 (Introducing Scientific Explanation) Chapter 2: How does sound energy travel through water from a mother dolphin to her calf? Lesson: 2.1 (Sound on the Move)
	April 22-26	Lessons: 2.2 (Visualizing How Sound Travels), 2.3 (Investigating Particles) and 2.4 (Investigating Collisions)
	April 29-May 3	Lessons: 2.5 (Modeling Energy Transfer) and 2.6 (Explaining How Sound Energy Travels)
	May 6-10	Social Studies
	May 13-17	
	May 20-24	Chapter 3: How does a dolphin calf know which call is his mother's call? Lessons: 3.1 (Investigating Amplitude), 3.2 (Investigating Wavelength) and 3.3 (How Sounds Can Differ)
	May 27-31	Lessons: 3.4 (Seeing Sound), 3.5 (The Scientist Who Cracked the Dolphin Code), 3.6 (Discussing Dolphin Communication), and 3.7 (End of Unit Assessment Part 1)
	June 3-7	Social Studies