

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

Quarter	Dates	Amplify Core Content Unit One: Harnessing Human Energy (11 Lessons) Force and Motion (19 Lessons)
Q1	Aug. 21-23	Community building/routines/procedures
	Aug. 26-29	Chapter 1: What Is Energy? Lessons: 1.1 (Welcome to Energy REsearch Lab), 1.2 (Investigating Energy Claims), 1.3 (Identifying Kinetic Energy and Potential Energy) and 1.4 (“Energy Inventions”)
	Sept. 3-6	Chapter 2: The Rescue Team’s Energy Needs Lessons: 2.1 (Investigating Claims About How Objects Get Energy), 2.2 (Evaluating Energy Sources), and 2.3 (Writing Scientific Arguments)
	Sept. 9-13	Flex Week (Used to catch up on pacing or Review Topics)
	Sept. 16-20	Chapter 3: Designing an Energy Solution Lessons: 3.1 (Reading About Energy Systems), 3.2 (Designing and Explaining Energy Systems), 3.3 (Evaluating an Energy Solution), and 3.4 (End-of-Unit Assessment)
	Sept. 23-26	Unit: Force and Motion Chapter 1: Force and Velocity Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Describing Changes in Motion), 1.3 (Investigating Direction of Force), and 1.4 (Explaining Force and Velocity)
	Sept. 30- Oct. 4	Lessons: 1.5 (Force Strength and Velocity Change), 1.6 (Evaluating Claims and Thruster Forces) Chapter 2: Mass and Velocity Lessons: 2.1 (Exploring Mass, Force, and Velocity), and 2.2 (“Designing Wheelchairs”)
	Oct. 7-11	Lessons: 2.3 (Explaining Mass, Force, and Velocity), 2.4 (Critical Juncture Assessment), and 2.5 (Reviewing Mass, Force, and Velocity)

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Quarter	Dates	Amplify Core Content Unit One: Force and Motion (19 Lessons)
Q1	Oct. 14-1	Chapter 3: Collisions Lessons: 3.1 (“Crash!”), 3.2 (Investigating Collision Forces), 3.3 (Effect of Collisions), and 3.4 (Reasoning About the Pod’s Motion)
	Oct. 21-25	Chapter 4: Force, Motion, and Movie Sets Lessons: 4.1 (Using Physics on Movie Sets), 4.2 (Discussing Physics and Movie Sets), 4.3 (Writing A Scientific Argument) and 4.4 (End of Unit Assessment)
	Oct. 28- Nov. 1	Flex Week- Used to reteach or for pacing alignment

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Quarter	Dates	Amplify Core Content Internship: Force and Motion Engineering (10 Lessons) Unit: Magnetic Fields
Q2	Nov. 4-8	Force and Motion Engineering Internship Lessons: Day 1- Day 4
	Nov. 11-15	Lessons: Day 5-8
	Nov. 18-22	Lessons” Day 9-10
	Nov. 25-29	Thanksgiving Break
	Dec. 2-6	Chapter 1: Modeling Magnetic Force Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Introducing the Magnetic Spacecraft), 1.3 (Evaluating Magnetic Force) and Lessons: 1.4 (“Earth’s Geomagnetism”)
	Dec. 9-13	Lessons: 1.5 (Investigating Magnetic Field Lines), 1.6 (Analyzing Field Line Data) Chapter 2: Investigating Potential Energy Lessons: 2.1 (The Potential for Speed), and 2.2 (Exploring Potential and Kinetic Energy)
	Dec. 16-20	Lessons: 2.3 (Magnetic Force and Potential Energy), 2.4 (Simulating Spacecraft Energy)
	Dec. 23- Jan. 3	Winter Break

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Quarter	Dates	Amplify Core Content Unit: Magnetic Fields (19 Lessons)
Q2	Dec. 30- Jan. 3	Winter Break
	Jan.6-10	Chapter 3: Exploring the Strength of Magnetic Force Lessons: 3.1 (Exploring Energy and Force Strength), 3.2 (Investigating Magnetic Force Strength), and 3.3 (Modeling the Spacecraft Launches)
	Jan. 13- 17	Lessons: 3.4 (Critical Juncture Assessment) and 3.5 (Reviewing Key Ideas and Introducing Electromagnets) Chapter 4: Designing Roller Coasters Lessons: 4.1 (Evaluating Roller Coaster Experiments) and 4.2 (Evaluating Roller Coaster Design Claims)
	Jan. 20-24	Lessons: 4.3 (The Science Seminar) and 4.4 (End of Unit Assessment)

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Quarter	Dates	Amplify Core Content Unit: Light Waves (19 Lessons) Earth, Moon, and Sun (19 Lessons)
Q3	Jan. 27-31	Chapter 1: Changes Caused by Light Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Light and Energy), 1.3 (Explaining Changes from Light) and 1.4 (Explaining Sunlight and Skin Cancer)
	Feb. 3-7	Chapter 2: Light as a Wave Lessons: 2.1 (Investigating Different Light Sources), 2.2 (“Harvesting Sunlight”), 2.3 (Wave Properties) and 2.4 (Effects of Different Types of Light)
	Feb. 10-14	Lessons: 2.5 (Analyzing Evidence About Melanin and UV Light) Chapter 3: More Light Interactions Lessons: 3.1 (Following the Path of Light), 3.2 (“What Eyes Can See”), and 3.3 (Reflection, Transmission, and Energy)
	Feb. 17-21	Lessons: 3.4 (Critical Juncture Assessment), 3.5 (Light and the Atmosphere), and 3.6 (Explaining Australia's Skin Cancer Rate)
	Feb. 24-28	Chapter 4: Science Seminar Lessons: 4.1 (Analyzing Evidence), 4.2 (Science Seminar), 4.3 (Writing a Scientific Argument) and 4.4 (End of Unit Assessment)
	Mar. 3-7	Unit: Earth, Moon, and Sun Chapter 1: Light and Dark on the Moon Lesson: 1.1 (Pre-Unit Assessment),
	Mar. 10-13	Lessons: 1.2 (Picturing the Moon), 1.3 (Modeling Light and Dark on the Moon), and 1.4 (Simulating Light and Dark on the Moon)

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Quarter	Dates	Amplify Core Content Unit: Earth, Moon, and Sun
Q3	Mar. 17-20	Chapter 2: Moon Phases Lessons: 2.1 (“Phases of the Moon”), 2.2 (Gathering Evidence About Moon Phases), 2.3 (Simulating Moon Phases), and 2.4 (Moon Phase Patterns)
	Mar. 24-28	Spring Break
	Mar. 31-Apr. 4	Lessons: 2.5 (Orbit and the Pattern of Moon Phases), 2.6 (Critical Juncture Assessment) and 2.7 (Taking on New Challenges)

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Quarter	Dates	Amplify Core Content Unit: Earth, Moon, and Sun (19 Lessons) Natural Selection (19 Lessons)
Q4	April 7-11	Chapter 3: Lunar Eclipses Lessons: 3.1 (Introduction to Lunar Eclipses), 3.1 (REading About Predicting Eclipses), 3.3 (Gathering Evidence About Lunar Eclipses) and 3.4 (When and Why We See Lunar Eclipses)
	April 14-18	Chapter 4: Science Seminar Lessons: 4.1 (Lunar Eclipses Outside Our Solar System), 4.2 (Discussing Eclipses in a Two-Star System), 4.3 (Writing a Scientific Argument) and 4.4 (End of Unit Assessment)
	April 21-24	Unit: Natural Selection Chapter 1: Environmental Change and Trait Distribution Lessons: 1.1 (Pre-Unit Assessment), 1.2 (The Mystery of the Poisonous Newts), 1.3 (Exploring Variation and Distribution in Populations) and 1.4 (Investigating Changes in Trait Distribution)
	April 28-May 2	Lessons: 1.5 (Adaptive Traits) and 1.6 (Explaining Changes in Trait Distribution) Chapter 2: Natural Selection and Reproduction Lessons: 2.1 (Reproduction and Traits), and 2.2 (Survival and Reproduction)
	May 5-9	Lessons: 2.3 (“The Deadly Dare”), 2.4 (Reasoning About the Newt Mystery), 2.5 (Critical Juncture Assessment), and 2.6 (Reviewing Key Ideas About natural Selection)
	May 12-16	Chapter 3: Mutation and Adaptive Traits Lessons: 3.1 (Introduction to Mutations), 3.2 (Mutations in a Population), 3.3 (Wrapping Up the Mystery)

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Quarter	Dates	Amplify Core Content Unit: Earth, Moon, and Sun (19 Lessons) Natural Selection
Q4	May 19-23	Chapter 4: Science Seminar Lessons: 4.1 (Examining Evidence About Sticklebacks), 4.2 (Engaging in a Science Seminar) 4.3 (Writing a Scientific Argument) and 4.4 (End of Unit Assessment)
	May 26-30	Natural Selection Engineering Internship Day 1-4
	June 2-6	Natural Selection Engineering Internship Day 5-10