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

Quarter	Dates	Amplify Core Content **Unit One: Harnessing Human Energy**
Q1	Aug. 28-31	Community building/routines/procedures
	Sept. 5-8	Harnessing Human Energy: Lessons 1-4
	Sept. 11-15	Harnessing Human Energy: Lessons 5-9
	Sept. 18-22	Harnessing Human Energy: Lessons 10-11
	Sept. 25-29	Force and Motion: Lesson 1-5
	Oct. 2-6	Force and Motion: Lesson 6-10
	Oct. 9-13	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)
	Oct. 16-20	Chapter 2: Designing an Energy Solution Lessons: 3.1 (Reading About Energy Systems), 3.2 (Designing and Explaining Energy Systems), and 3.3 (Evaluating an Energy Solution)
	Oct. 23-27	Flex (Can be used to catch up with pacing) Lesson 3.4 (End of Unit Assessment)
	Oct. 30-Nov. 3	**Unit Two: Force and Motion** Chapter 1: Force and Velocity Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Describing Changes in Motion)

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Quarter	Dates	Amplify Core Content Unit Force and Motion Internship: Force and Motion Engineering (10 Lessons)
Q2	Oct. 30-Nov. 3	**Unit: Force and Motion** Chapter 1: Force and Velocity Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Describing Changes in Motion) and 1.3 (Investigating Direction of Force)
	Nov. 6-10	Lessons: 1.4 (Explaining Force and Velocity) 1.5 (Force Strength and Velocity Change) and 1.6 (Evaluating Claims and Thruster Forces)
	Nov. 13-17	Chapter 2: Mass and Velocity Lessons: 2.1 (Exploring Mass, Force, and Velocity) 2.2 (“Designing Wheelchairs”), 2.3 (Explaining Mass, Force, and Velocity), and 2.4 (Critical Juncture Assessment)
	Nov. 20-24*	**Thanksgiving Break**
	Nov. 27-1	Lesson: 2.5 (Reviewing Mass, Force, and Velocity) Chapter 3: Collisions Lessons: 3.1 (“Crash”), 3.2 (Investigating Collision Forces), and 3.3 (Effect of Collisions)
	Dec. 4-8	Lesson: 3.4 (Reasoning About the Pod’s Motion) Chapter 4:Force, Motion, and Movie Sets Lessons: 4.1 (Using Physics on Movie Sets), 4.2 (Discussing Physics and Movie Sets),
	Dec. 11-15	Lessons: 4.3 (Writing a Scientific Argument) and 4.4 (End of Unit Assessment)
	Dec. 18-22	Force and Motion Engineering Internship Lessons: Day 1- Day 3

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Quarter	Dates	Amplify Core Content Internship: Force and Motion Engineering Cont.
Q2	Dec. 25-29	Winter Break
	Jan. 1-5	
	Jan. 8-12	Force and Motion Engineering Internship Days 4-6
	Jan. 15-19	Days 7-10

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Quarter	Dates	**Amplify Core Content** **Unit: Magnetic Fields (19 Lessons)**
Q3	Jan. 22-26	Chapter 1: Modeling Magnetic Force Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Introducing the Magnetic Spacecraft), and 1.3 (Evaluating Magnetic Force)
	Jan. 29-Feb. 2	Lessons: 1.4 (“Earth’s Geomagnetism”), 1.5 (Investigating Magnetic Field Lines), 1.6 (Analyzing Field Line Data)
	Feb. 5-9	Chapter 2: Investigating Potential Energy Lessons: 2.1 (The Potential for Speed), and 2.2 (Exploring Potential and Kinetic Energy)
	Feb. 12-16	Lessons: 2.3 (Magnetic Force and Potential Energy) and 2.4 (Simulating Spacecraft Energy)
	Feb. 19-23	Chapter 3: Exploring the Strength of Magnetic Force Lessons: 3.1 (Exploring Energy and Force Strength), and 3.2 (Investigating Magnetic Force Strength)
	Feb. 26-Mar. 1	Lessons: 3.3 (Modeling the Spacecraft Launches), 3.4 (Critical Juncture Assessment) and 3.5 (Reviewing Key Ideas and Introducing Electromagnets)
	Mar. 4-8	Chapter 4: Designing Roller Coaster Lessons: 4.1 (Evaluating Roller Coaster Experiments), 4.2 (Evaluating Roller Coaster Design Claims)
	Mar. 11-15	Flex Week: Used to catch-up with pacing and review.

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Quarter	Dates	**Amplify Core Content** **Unit: Magnetic Fields (19 Lessons)** **Light Waves (19 Lessons)**
Q3	Mar. 18-22	Lessons: 4.3 (The Science Seminar) and 4.4 (End-of-Unit Assessment)
	Mar. 25-29	Spring Break
	April 1-5	**Unit: Light Waves** **Chapter 1:** Changes Caused by Light Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Light and Energy) and 1.3 (Explaining Changes from Light)

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Quarter	Dates	**Amplify Core Content** **Unit: Light Waves (19 Lessons)** **Earth, Moon, and Sun (19 Lessons)**
Q4	April 8-12	Chapter 1: Changes Caused by Light Lesson: 1.4 (Explaining Sunlight and Skin Cancer) Chapter 2: Light as a Wave Lessons: 2.1 (Investigating Different Light Sources), 2.2 (“Harvesting Sunlight”), and 2.3 (Wave Properties)
	April 15-19	Lessons: 2.4 (Effects of Different Types of Light) and 2.5 (Analyzing Evidence About Melanin and UV Light) Chapter 3: More Light Interactions Lessons: 3.1 (Following the Path of Light) and 3.2 (“What Eyes Can See”)
	April 22-26	Lessons: 3.3 (Reflection, Transmission, and Energy), 3.4 (Critical Juncture Assessment), 3.5 (Light and the Atmosphere), and Explaining Australia’s Skin Cancer Rate)
	April 29-May 3	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)
	May 6-10	**Unit: Earth, Moon, and Sun** **Chapter 1:** Light and Dark on the Moon Lessons: 1.1 (Pre-Unit Assessment), 1.2 (Picturing the Moon), 1.3 (Modeling Light and Dark on the Moon), and 1.4 (Simulating Light and Dark on the Moon)
	May 13-17	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)
	June 3-7	Flex Week

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Quarter	Dates	**Amplify Core Content** **Unit: Light Waves (19 Lessons)** **Earth, Moon, and Sun (19 Lessons)**
Q4	May 20-24	Lessons: 2.5 (Orbit and the Pattern of Moon Phases), 2.6 (Critical Juncture Assessment), and 2.7 (Taking on New Challenges) Chapter 3: Lunar Eclipses Lessons: 3.1 (Introduction to Lunar Eclipses)
	May 27-31	Lessons: 3.2 (Reading About Predicting Eclipses), 3.3 (Gathering Evidence About Lunar Eclipses), and 3.4 (When and Why We See Lunar Eclipses)
	June 3-7	Flex Week