

Biology Pacing Calendar

	Week 1	Week 2	Week 3	Week 4
September	<p>Assessments</p> <p>Welcome and Overview</p> <p>Intro to Models</p> <p>Reading diagrams/charts</p> <p>Graph Interpretation</p> <p><u>Anchor Phenomenon Launch</u></p>	<p>Structure and Function</p> <p>Marathon Runner - Unit 1</p> <p><u>Gas Exchange and Cellular Respiration</u></p> <p>MS-LS1-3: Interacting Body Systems</p> <p>HS-LS1-2: Interacting Body Systems</p> <p>HS-LS1-3: Feedback Mechanisms and Homeostasis</p> <p>HS-LS1-7: Cellular Respiration and Energy Transfer</p>	<p>Structure and Function</p> <p>Marathon Runner - Unit 1</p> <p><u>Muscles & Energy</u></p> <p>MS-LS1-3: Interacting Body Systems</p> <p>HS-LS1-2: Interacting Body Systems</p> <p>HS-LS1-3: Feedback Mechanisms and Homeostasis</p> <p>HS-LS1-7: Cellular Respiration and Energy Transfer</p>	<p>Structure and Function</p> <p>Marathon Runner - Unit 1</p> <p><u>Human Thermoregulation</u></p> <p>MS-LS1-3: Interacting Body Systems</p> <p>HS-LS1-2: Interacting Body Systems</p> <p>HS-LS1-3: Feedback Mechanisms and Homeostasis</p> <p>Science Benchmark</p>

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	Week 1	Week 2	Week 3	Week 4
October	<p>Structure and Function</p> <p>Marathon Runner - Unit 1</p> <p><u>Water Balance</u></p> <p>MS-LS1-3: Interacting Body Systems</p> <p>HS-LS1-2: Interacting Body Systems</p> <p>HS-LS1-3: Feedback Mechanisms and Homeostasis</p>	<p>Structure and Function</p> <p>Marathon Runner - Unit 1</p> <p><u>Unit Closing</u></p> <p>Final Performance Task</p> <p>Review All Standards</p> <p>Regents/Cluster Review</p> <p>Assessment</p>	<p>Matter and Energy in Organisms and Ecosystems</p> <p>Food for All – Unit 5</p> <p><u>1.Anchor Phenomenon Launch (2 days)</u></p> <p><u>2.Neolithic Revolution (3 days)</u></p> <p>MS-LS2-1: Effects of Resource Availability</p> <p>HS-LS2-1: Carrying Capacity of Ecosystems</p>	<p>Matter and Energy in Organisms and Ecosystems</p> <p>Food for All – Unit 5</p> <p><u>The Superfood that Changed the World</u></p> <p>HS-LS1-5: Photosynthesis and Energy Transformation</p> <p>HS-LS2-4: Biomass and Trophic Levels</p> <p>STEAM PROJECTS</p>

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November	<p>Matter and Energy in Organisms and Ecosystems</p> <p>Food for All – Unit 5</p> <p><u><i>Infectious Agent or Insufficient Diet</i></u></p> <p>MS-LS2-3: <u>Matter Cycling and Energy Flow in Ecosystems</u></p> <p>HS-LS2-3: <u>Aerobic and Anaerobic Cycling of Matter</u></p> <p>STEAM PROJECTS</p>	<p>Matter and Energy in Organisms and Ecosystems</p> <p>Food for All – Unit 5</p> <p><u><i>Food for Plants</i></u></p> <p>HS-LS1-6: <u>Formation of Carbon-Based Molecules</u></p> <p>STEAM PROJECT</p> <p>STEAM Night November 13, 2025</p>	<p>Matter and Energy in Organisms and Ecosystems</p> <p>Food for All – Unit 5</p> <p><u><i>Unit Closing</i></u></p> <p>Final Performance Task</p> <p>Review All Standards</p> <p>Regents/Cluster Review</p> <p>Assessment</p> <p>Assessment – Mock Regents November 25, 2025</p>	<p>Interdependent Relationships in Ecosystems</p> <p>Wolly Mammoth – Unit 6</p> <p><u><i>1.Anchor Phenomenon Launch (1 days)</i></u></p> <p><u><i>2.Tuskless Elephants (4 days)</i></u></p> <p>HS-LS4-6 <u>Human Impact on Biodiversity Solution</u></p> <p>HS-LS2-7: <u>Human Impact Reduction Solution</u></p>
December	<p>Interdependent Relationships in Ecosystems</p> <p>Wolly Mammoth – Unit 6</p>	<p>Interdependent Relationships in Ecosystems</p> <p>Wolly Mammoth – Unit 6</p>	<p>Interdependent Relationships in Ecosystems</p>	<p>Interdependent Relationships in Ecosystems</p> <p>Holiday Recess</p>

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	<p><u>Coral Bleaching</u></p> <p>MS-LS2-5: Biodiversity and Ecosystem Services Solutions</p> <p>HS-LS2-2 Biodiversity and Populations in Ecosystems</p> <p>HS-LS2-5 Cycling of Carbon in Ecosystems</p>	<p><u>Kelp Forest</u></p> <p>MS-LS2-5: Biodiversity and Ecosystem Services Solutions</p> <p>HS-LS2-2 Biodiversity and Populations in Ecosystems</p> <p>HS-LS2-6: Ecosystem Dynamics, Functioning, and Resilience</p>	<p>Wolly Mammoth – Unit 6</p> <p><u>Passenger Pigeon</u></p> <p>HS-LS2-8: Social Interactions and Group Behavior</p> <p>HS-LS4-2 Four Factors of Natural Selection</p> <p>HS-LS4-6: Human Impact on Biodiversity Solution</p>	<p>School Closed</p> <p>Holiday Assignment -</p> <p>Final Performance Task</p> <p>HS-LS2-6: Ecosystem Dynamics, Functioning, and Resilience</p> <p>HS-LS2-7: Human Impact Reduction Solution</p>
January	<p>Holiday Recess School Closed</p> <p>Holiday Assignment -</p>	<p>Interdependent Relationships in Ecosystems</p> <p>Wooly Mammoth – Unit 6</p>	<p>Growth, Development, and Reproduction</p>	<p>Growth, Development, and Reproduction</p>

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	Week 1	Week 2	Week 3	Week 4
	Final Performance Task	<p><u>Unit Closing</u></p> <p>Cluster/Regents Review</p> <p>Assessment</p>	<p>Saving the Mountain Lion – Unit 4</p> <p><u>1.Anchor Phenomenon Launch (1 days)</u></p> <p><u>2.Populations (4 days)</u></p> <p>HS-LS1-4: Cellular Division and Differentiation</p> <p>HS-LS3-2: Inheritable Genetic Variation</p> <p>HS-LS1-8: Human Reproduction*</p> <p>HS-LS4-3: Adaptation of Populations</p> <p>HSL3-3: Variation and Distribution of Traits</p>	<p>Saving the Mountain Lion – Unit 4</p> <p><u>Sexual Reproduction</u></p> <p>HS-LS1-8: Human Reproduction</p> <p>HS-LS3-1: Chromosomal Inheritance</p>
February	Inheritance and Variation of Traits	Inheritance and Variation of Traits	Inheritance and Variation of Traits Saving the Mountain Lion – Unit 4	1) Growth, Development, and Reproduction

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	Week 1	Week 2	Week 3	Week 4
	<p>Saving the Mountain Lion – Unit 4</p> <p><u>Genetic Variation</u></p> <p>HS-LS1-4: Cellular Division and Differentiation</p> <p>HS-LS4-3: Adaptation of Populations</p> <p>HS-LS3-2: Inheritable Genetic Variation</p>	<p>Saving the Mountain Lion – Unit 4</p> <p><u>Engineering Gene Flow</u></p> <p>HS-LS3-2: Inheritable Genetic Variation</p> <p>HLS3-3: Variation and Distribution of Traits</p> <p>HS-LS4-3: Adaptation of Populations</p>	<p>Winter Recess School Closed</p> <p>Holiday Assignment - Final Performance Task</p>	<p>2) Inheritance and Variation of Traits Saving the Mountain Lion – Unit 4</p> <p><u>Unit Closing</u> Cluster/Regents Review Assessment</p>
	Natural Selection and Evolution	Natural Selection and Evolution	Natural Selection and Evolution	

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	Week 1	Week 2	Week 3	Week 4
March	<p>Humans versus Bacteria – Unit 2</p> <p><u>1.Anchor Phenomenon Launch (1 days)</u></p> <p><u>2.The Black Death (4 days)</u></p> <p>MS-LS4-6: Adaptation of Populations over Time</p> <p>HS-LS4-3: Adaptation of Populations</p> <p>MS-LS4-4: Natural Selection</p> <p>HS-LS4-2: Four Factors of Natural Selection</p> <p>HS-LS4-4: Natural Selection Leads to Adaptation</p> <p>STEAM PROJECTS</p>	<p>Humans versus Bacteria – Unit 2</p> <p><u>1.The Black Death (1 day – if needed)</u></p> <p><u>2.Antibiotic Resistance (4 days)</u></p> <p>HS-LS4-3: Adaptation of Populations</p> <p>HS-LS4-4: Natural Selection Leads to Adaptation</p> <p>HS-LS4-2: Four Factors of Natural Selection</p> <p>HS-LS4-5: Environmental Change - Speciation and Extinction</p> <p>STEAM PROJECTS STEAM Night March 19, 2025</p>	<p>Humans versus Bacteria – Unit 2</p> <p><u>The Microbiome</u></p> <p>HS-LS4-4: Natural Selection Leads to Adaptation</p> <p>HS-LS4-5: Environmental Change - Speciation and Extinction</p>	<p>Natural Selection and Evolution</p> <p>Humans versus Bacteria – Unit 2</p> <p><u>Cooperation and Survival</u></p> <p>HS-LS2-8: Social Interactions and Group Behavior</p>

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April	<p>Natural Selection and Evolution</p> <p>Humans versus Bacteria–Unit 2</p> <p><u>Unit Closing</u></p> <p>Cluster/Regents Review</p> <p>Assessment</p> <p>EARTH DAY PROJECTS</p>	<p>Natural Selection and Evolution</p> <p>Humans versus Bacteria–Unit 2</p> <p>Spring Recess School Closed</p> <p>Holiday Assignment -</p> <p>1. Final Performance Task</p> <p>2. Earth Day Projects</p>	<p>Earth’s Systems</p> <p>Independent</p> <p>HS-ESS2-6</p> <p>EARTH DAY PROJECTS</p> <p>Earth Day – April 22, 2026</p>	<p>Earth’s Systems</p> <p>Independent</p> <p><u>Unit Closing</u></p> <p>Cluster/Regents Review</p> <p>Assessment</p>

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	Week 1	Week 2	Week 3	Week 4
May	<p>Engineering Design</p> <p>Evolution of Sick Humans -Unit 3</p> <p><u>1.Lactase Persistence</u> <u>2.Leptin Resistance</u></p> <p>HS. LS1-1: Genes, Proteins, and Tissues</p> <p>HS-LS3-1: Chromosomal Inheritance</p>	<p>Engineering Design</p> <p>Evolution of Sick Humans -Unit 3</p> <p><u>1.Circadian Rhythms</u> <u>2.Common Ancestry</u> <u>3.Unit Closing</u></p> <p>Cluster/Regents Review Assessment</p> <p>HS.LS1-1: Genes, Proteins, and Tissues</p> <p>HS-LS3-1: Chromosomal Inheritance</p> <p>MS-LS4-3: Embryological Evidence of Common Ancestry</p> <p>HS-LS4-1: Evidence of Common Ancestry and Diversity</p> <p>HS-ETS1-2: Optimizing the Design Solution</p> <p>HS-ETS1-3: Developing Possible Solutions</p> <p>STEAM PROJECTS STEAM Night May 14, 2025</p>	<p>Regents Review</p>	<p>Regents Review</p>

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	Week 1	Week 2	Week 3	Week 4
June	Regents Review	Regents Review	Biology Regents June 18, 2026 @ 9:15 a.m.	

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Biology:

UNIT 1: Marathon Runner	UNIT 2: Humans vs. Bacteria	UNIT 3: Evolution of Sick Humans	UNIT 4: Saving the Mountain Lion	UNIT 5: Food for All	UNIT 6: Woolly Mammoth
TOPIC: Homeostasis and Feedback Mechanisms in Humans	TOPIC: Natural Selection and the Interdependence of Organisms	TOPIC: Genetics, Protein Synthesis, and the Mismatch Hypothesis	TOPIC: Reproduction and Genetic Variation	TOPIC: Energy and Matter in Ecosystems	TOPIC: Ecosystem Resilience, Climate Change, and Human Impact
PES: HS-LS1-2 HS-LS1-3 HS-LS1-7	PES: HS-LS2-8 HS-LS4-2 HS-LS4-3 HS-LS4-4 HS-LS4-5	PES: HS-LS1-1 HS-LS3-1 HS-LS4-1 HS-ETS1-2 HS-ETS1-3	PES: HS-LS1-4 HS-LS3-2 HS-LS3-3 HS-LS1-8 (NYSSLS only) HS-LS4-3	PES: HS-LS1-5 HS-LS1-6 HS-LS2-3 HS-LS2-4 HS-LS2-1	PES: HS-LS2-5 HS-LS2-2 HS-LS2-6 HS-LS2-7 HS-LS4-6 (NGSS, not in the NYSSLS)
✓ Field Tested Fall, '18	✓ Field Tested Spring, '19	✓ Field Tested Spring, '22	✗ Field Testing Spring, '23	✗ Field Testing Spring, '23	✓ Field Tested Spring, '18