



Correlation to the Florida Course Description for M/J Comprehensive Science 3
Course Code 2002100

HMH Florida Science Grade 8 ©2019

BID ID:	<u>3268</u>
SUBMISSION TITLE:	HMH Florida Science: Grade 8 ©2019
GRADE LEVEL:	<u>6–8</u>
COURSE TITLE:	M/J Comprehensive Science 3
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BENCHMARK CODE	BENCHMARK	LESSONS WHERE STANDARD/BENCHMARK IS DIRECTLY ADDRESSED IN MAJOR TOOL (MOST IN-DEPTH COVERAGE LISTED FIRST) (Include the student edition and teacher edition with the page numbers of lesson, a link to lesson, or other identifier for easy lookup by reviewers.)
SC.8.E.5.1	Recognize that there are enormous distances between	SE: Unit 2, Lesson 1, pp. 86–95
	objects in space and apply our knowledge of light and space travel to understand this distance.	TE: Unit 2, Lesson 1, pp. 116–128
		Student Interactive Digital Curriculum: Unit 2, Lesson 1, Structure of the Universe
		Teacher Digital Management Center: Unit 2, Lesson 1, Structure of the Universe
		Lab (Lab Manual): Unit 5 Field Lab: Making a Telescope
		Virtual Lab(s): Unit 2, Lesson 1: Distances in the Universe
SC.8.E.5.2	Recognize that the universe contains many billions of	SE: Unit 2, Lesson 1, pp. 86–95
	galaxies and that each galaxy contains many billions of	TE: Unit 2, Lesson 1, pp. 116–128
	stars.	
		Student Interactive Digital Curriculum: Unit 2, Lesson 1, Structure of the Universe
		Teacher Digital Management Center: Unit 2, Lesson 1, Structure of the Universe
		Lab (Lab Manual): Unit 2, Lesson 1 Quick Lab: Modeling Galaxies
		Virtual Lab(s): Unit 2, Lesson 1: Distances in the Universe

SC.8.E.5.3	Distinguish the hierarchical relationships between planets and other astronomical bodies relative to solar system, galaxy, and universe, including distance, size, and composition.	SE: Unit 2, Lesson 1, pp. 86–95; Unit 3, Lesson 3, pp. 142–153; Unit 3, Lesson 4, pp. 154–167; Unit 3, Lesson 5, pp. 170–181; Unit 3, Lesson 6, pp. 184–197 TE: Unit 2, Lesson 1, pp. 116–128; Unit 3, Lesson 3, pp. 197–209; Unit 3, Lesson 4, pp. 210–225; Unit 3, Lesson 5, pp. 228–241; Unit 3, Lesson 6, pp. 244–259 Student Interactive Digital Curriculum: Unit 2, Lesson 1, Structure of the Universe; Unit 3, Lesson 3, The Sun; Unit 3, Lesson 4, The Terrestrial Planets; Unit 3, Lesson 5, The Gas Giant Planets; Unit 3, Lesson 6, Small Bodies in the Solar System Teacher Digital Management Center: Unit 2, Lesson 1, Structure of the Universe; Unit 3, Lesson 3, The Sun; Unit 3, Lesson 4, The Terrestrial Planets; Unit 3, Lesson 5, The Gas Giant Planets; Unit 3, Lesson 6, Small Bodies in the Solar System Labs (Lab Manual): Unit 3, Lesson 4 Quick Lab: Schoolyard Solar System; Unit 3, Lesson 2 Quick Lab: The Winds on Neptune; Unit 2 Exploration Lab: Exploring the Relationship Between Mass and Shape; Unit 2, Lesson 1 Quick Lab: Modeling the Expanding Universe; Unit 3, Lesson 6 Quick Lab: Orbits of Comets
SC.8.E.5.4	Explore the Law of Universal Gravitation by explaining the role that gravity plays in the formation of planets, stars, and solar systems and in determining their motions.	SE: Unit 3, Lesson 2, pp. 128–141 TE: Unit 3, Lesson 2, pp. 180–194 Student Interactive Digital Curriculum: Unit 3, Lesson 2, Gravity and the Solar System Teacher Digital Management Center: Unit 3, Lesson 2, Gravity and the Solar System Labs (Lab Manual): Unit 3, Lesson 2 Quick Lab: Gravity's Effect; Unit 3, Lesson 2 Quick Lab: Orbital Ellipses
SC.8.E.5.5	Describe and classify specific physical properties of stars: apparent magnitude (brightness), temperature (color), size, and luminosity (absolute brightness).	SE: Unit 2, Lesson 2, pp. 98–107 TE: Unit 2, Lesson 2, pp. 132–144 Student Interactive Digital Curriculum: Unit 2, Lesson 2, Stars Teacher Digital Management Center: Unit 2, Lesson 2, Stars Labs (Lab Manual): Unit 2, Lesson 2 Quick Lab: Modeling Star Magnitudes; Unit 2, Lesson 2 Quick Lab: Star Graphing; Unit 2, Lesson 2 Quick Lab: Using a Sky Map; Unit 2 Exploration Lab: Star Colors and Temperatures; Unit 2 Exploration Lab: Exploring the Relationship Between Mass and Shape Virtual Lab(s): Unit 2, Lesson 2: Using Color to Measure Temperature
SC.8.E.5.6	Create models of solar properties including: rotation, structure of the Sun, convection, sunspots, solar flares, and prominences.	SE: Unit 3, Lesson 3, pp. 142–153 TE: Unit 3, Lesson 3, pp.196–209 Student Interactive Digital Curriculum: Unit 3, Lesson 3, The Sun Teacher Digital Management Center: Unit 3, Lesson 3, The Sun Labs (Lab Manual): Unit 3 Exploration Lab: Create a Model of the Sun; Unit 3, Lesson 3 Quick Lab: Model Solar Composition

Solar System including the Sun, planets, and moons to those of Earth, such as gravitational force, distance from the Sun, speed, movement, temperature, and atmospheric conditions. TE: Unit 3, Lesson 4, Student Interactive I	pp. 154–167; Unit 3, Lesson 5, pp. 170–181; Unit 3, Lesson 6, pp. 184–197 pp. 210–225; Unit 3, Lesson 5, pp. 228–241; Unit 3, Lesson 6, pp. 244–259 Digital Curriculum: Unit 3, Lesson 4, The Terrestrial Planets; Unit 3, Lesson 5, The Gas Giant Planets; Unit 3, Lesson 6, Small Bodies in the agement Center: Unit 3, Lesson 4, The Terrestrial Planets; Unit 3, Lesson 5, The Gas Giant Planets; Unit 3, Lesson 6, Small Bodies in the Solar
those of Earth, such as gravitational force, distance from the Sun, speed, movement, temperature, and atmospheric conditions. Solar System Teacher Digital Man	Digital Curriculum: Unit 3, Lesson 4, The Terrestrial Planets; Unit 3, Lesson 5, The Gas Giant Planets; Unit 3, Lesson 6, Small Bodies in the
from the Sun, speed, movement, temperature, and atmospheric conditions. Solar System Teacher Digital Man	
atmospheric conditions. Solar System Teacher Digital Man	
Teacher Digital Man	agement Center: Unit 3, Lesson 4, The Terrestrial Planets; Unit 3, Lesson 5, The Gas Giant Planets; Unit 3, Lesson 6, Small Bodies in the Solar
	Jnit 3 Exploration Lab: Weights on Different Celestial Bodies; Unit 3, Lesson 5 Quick Lab: The Winds on Neptune; Unit 3, Lesson 5 Quick Lab:
Modeling Saturn's Ri	ngs; Unit 3, Lesson 6 Quick Lab: Modeling Crater Formation
	, Lesson 4: Altering Planets
SC.8.E.5.8 Compare various historical models of the Solar System, SE: Unit 3, Lesson 1,	pp. 116–125
including geocentric and heliocentric. TE: Unit 3, Lesson 1,	pp. 164–176
Student Interactive	Digital Curriculum: Unit 3, Lesson 1, Historical Models of the Solar System
	agement Center: Unit 3, Lesson 1, Historical Models of the Solar System
	, , , , , , , , , , , , , , , , , , , ,
Labs (Lab Manual): \(\text{L}	Unit 3, Lesson 1 Quick Lab: The Geocentric Model of the Solar System; Unit 3, Lesson 1 Quick Lab: The Heliocentric Model of the Solar System
SC.8.E.5.9 Explain the impact of objects in space on each other SE: Unit 4, Lesson 1,	pp. 208–217; Unit 4, Lesson 2, pp. 218–227; Unit 4, Lesson 3, pp. 230–239
	pp. 276–288; Unit 4, Lesson 2, pp. 290–303; Unit 4, Lesson 3, pp. 306–319
1. the Sun on the Earth including seasons and gravitational attraction Student Interactive I	Digital Curriculum: Unit 4, Lesson 1, Earth's Days, Years, and Seasons; Unit 4, Lesson 2, Moon Phases and Eclipses; Unit 4, Lesson 3, Earth's
2. the Moon on the Earth, including phases, tides, and Tides	orgital curriculum. Onit 4, Lesson 1, Lartin's Days, Tears, and Seasons, Onit 4, Lesson 2, Woon Prinases and Eclipses, Onit 4, Lesson 3, Lartin's
	agement Center: Unit 4, Lesson 1, Earth's Days, Years, and Seasons; Unit 4, Lesson 2, Moon Phases and Eclipses; Unit 4, Lesson 3, Earth's
lides	
Lahs (Lah Manual): I	Jnit 4, Lesson 1 Quick Lab: Earth's Rotation and Revolution; Unit 4, Lesson 1 Quick Lab: Seasons Model; Unit 4, Lesson 2 Quick Lab: Moon
· · · · · · · · · · · · · · · · · · ·	n 2 Quick Lab: Lunar Eclipse; Unit 4, Lesson 3 Quick Lab: Tides and Beachers; Unit 4, Lesson 3 Quick Lab: Tidal Math; Unit 4 Exploration Lab:
What the Moon Orbi	
Virtual Lab(s): Unit ²	, Lesson 1: Seasons; Unit 4, Lesson 2: Spheres in Space
SC.8.E.5.10 Assess how technology is essential to science for such SE: Unit 5, Lesson 1,	pp. 252–265; Unit 5, Lesson 2, pp. 268–281
g,	pp. 338–352; Unit 5, Lesson 2, pp. 356–370
locations, sample collection, measurement, data	
collection and storage, computation, and Student Interactive I	Digital Curriculum: Unit 5, Lesson 1, Images from Space; Unit 5, Lesson 2, Technology for Space Exploration
communication of information. Teacher Digital Man	agement Center: Unit 5, Lesson 1, Images from Space; Unit 5, Lesson 2, Technology for Space Exploration
Many labs address the	nis benchmark, including the following:
	unit 5 Field Lab: Build a Rocket; Unit 5 Field Lab: Making a Telescope; Unit 5, Lesson 2 Quick Lab: Splitting White Light
Virtual Lab(s): Unit 5	, Lesson 1: Observing Earth over Time; Unit 5, Lesson 2: Exploring with Space Probes

SC.8.E.5.11	Identify and compare characteristics of the	SE : Unit 5, Lesson 1, pp. 252–265
	electromagnetic spectrum such as wavelength,	TE: Unit 5, Lesson 1, pp. 338–352
	frequency, use, and hazards and recognize its	
	application to an understanding of planetary images	Student Interactive Digital Curriculum: Unit 5, Lesson 1, Images from Space
	and satellite photographs.	Teacher Digital Management Center: Unit 5, Lesson 1, Images from Space
		Lab (Lab Manual): Unit 5, Lesson 1 Quick Lab: Using Invisible Light
		Virtual Lab(s): Unit 5, Lesson 1: Observing Earth over Time
SC.8.E.5.12	Summarize the effects of space exploration on the	SE : Unit 5, Lesson 3, pp. 284–297
	economy and culture of Florida.	TE: Unit 5, Lesson 3, pp. 374–388
		Student Interactive Digital Curriculum: Unit 5, Lesson 3, Space Exploration and Florida
		Teacher Digital Management Center: Unit 5, Lesson 3, Space Exploration and Florida
		Labs (Lab Manual): Unit 5, Lesson 3 Quick Lab: Florida Economics without NASA; Unit 5, Lesson 3 Quick Lab: Florida Culture without NASA
SC.8.L.18.1	Describe and investigate the process of photosynthesis	s, SE: Unit 7, Lesson 1, pp. 414–425
	such as the roles of light, carbon dioxide, water and	TE: Unit 7, Lesson 1, pp. 538–551
	chlorophyll; production of food; release of oxygen.	
		Student Interactive Digital Curriculum: Unit 7, Lesson 1, Photosynthesis and Cellular Respiration
		Teacher Digital Management Center: Unit 7, Lesson 1, Photosynthesis and Cellular Respiration
		Lab (Lab Manual): Unit 7, Lesson 1 Quick Lab: Reversing Equations
		Virtual Lab(s): Unit 1, Lesson 1: Observing Photosynthesis
SC.8.L.18.2	Describe and investigate how cellular respiration	SE: Unit 7, Lesson 1, pp. 414–425
	breaks down food to provide energy and releases	TE: Unit 7, Lesson 1, pp. 538–551
	carbon dioxide.	The state of the s
		Student Interactive Digital Curriculum: Unit 7, Lesson 1, Photosynthesis and Cellular Respiration
		Teacher Digital Management Center: Unit 7, Lesson 1, Photosynthesis and Cellular Respiration
		Labs (Lab Manual): Unit 7, Lesson 1 Quick Lab: Investigating Respiration with Chemical Indicators Lab; Unit 7, Lesson 1 Quick Lab: Making Compost
SC.8.L.18.3	Construct a scientific model of the carbon cycle to	SE: Unit 7, Lesson 2, pp. 428–439
JC.0.L.10.J	show how matter and energy are continuously	TE: Unit 7, Lesson 2, pp. 554–567
	transferred within and between organisms and their	121 of 110 7 , 223301 27, pp. 334 367
	physical environment.	Student Interactive Digital Curriculum: Unit 7, Lesson 2, Energy and Matter in Ecosystems
	physical environment.	
		Teacher Digital Management Center: Unit 7, Lesson 2, Energy and Matter in Ecosystems
		Lab (Lab Manual): Unit 7, Lesson 2 Quick Lab: Model the Carbon Cycle
SC.8.L.18.4	Cite evidence that living systems follow the Laws of	SE: Unit 7, Lesson 2, pp. 428–439
JC.0.L.10.4	Conservation of Mass and Energy.	TE: Unit 7, Lesson 2, pp. 428–439 TE: Unit 7, Lesson 2, pp. 554–567
	Conservation of iviass and energy.	TE. OHR 7, Lesson 2, μμ. 334–307
		Student Interactive Digital Curriculum Hait 7 Locope 2 Engravand Matter in Englishers
		Student Interactive Digital Curriculum: Unit 7, Lesson 2, Energy and Matter in Ecosystems
		Teacher Digital Management Center: Unit 7, Lesson 2, Energy and Matter in Ecosystems

SC.8.N.1.1	Define a problem from the eighth grade curriculum using appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types, such as systematic observations or experiments, identify variables, collect and organize data, interpret data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.	SE: Unit 1, Lesson 3, pp. 26–37; Unit 1 STEM, pp. 74–77; Unit 2, Lesson 1, pp. 86–95; Unit 3 Think Science, pp. 126–127; Unit 3, Lesson 6, pp. 184-197; Unit 4, Lesson 3, pp. 230–239; Unit 6, Lesson 2, pp. 322–335; Unit 6, STEM, pp. 350–351; Unit 6, Lesson 4, 354–363; Unit 7, Lesson 1, pp. 414–425; Unit 7 Think Science, pp. 426–427; Unit 7, Lesson 2, pp. 428–439; Unit 7 STEM, pp. 440–443 TE: Unit 1, Lesson 3, pp. 42–55; Unit 1, Lesson STEM, pp. 100–103; Unit 2, Lesson 1, pp. 116–128; Unit 3, Think Science, pp. 178–179; Unit 3, Lesson 6, pp. 244–259; Unit 4, Lesson 3, pp. 306–319; Unit 6, Lesson 2, pp. 554–567; Unit 7 STEM, pp. 460–463; Unit 6, Lesson 4, 464–476; Unit 7, Lesson 1, pp. 538–551; Unit 7 Think Science, pp. 552–553; Unit 7, Lesson 1, pp. 554–567; Unit 7 STEM, pp. 567–571 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 1, STEM: Analyzing Water Power; Unit 2, Lesson 1, Structure of the Universe; Unit 3 Think Science: Mean, Median, Mode, and Range; Unit 3, Lesson 6, Small Bodies in the Solar System; Unit 4, Lesson 3, Earth's Tides; Unit 6, Lesson 2, Properties of Matter; Unit 6 STEM: Engineering Design Process; Unit 6, Lesson 4, States of Matter; Unit 7, Lesson 1, Photosynthesis and Cellular Respiration; Unit 7 Think Science: Interpreting Circle Graphs; Unit 7, Lesson 2, Energy and Ecosystems; Unit 7 STEM: Design an Ecosystem Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations; Unit 1, STEM: Analyzing Water Power; Unit 2, Lesson 1, Structure of the Universe; Unit 3 Think Science: Mean, Median, Mode, and Range; Unit 3, Lesson 6, Small Bodies in the Solar System; Unit 4, Lesson 3, Earth's Tides; Unit 6, Lesson 2, Properties of Matter; Unit 6 STEM: Engineering Design Process; Unit 6, Lesson 4, States of Matter; Unit 7, Lesson 1, Structure of the Universe; Unit 3 Think Science: Mean, Median, Mode, and Range; Unit 7, Lesson 6, Small Bodies in the Solar System; Unit 4, Lesson 3, Earth's Tides; Unit 6, Lesson 2, Properties of Matter; Unit 6
SC.8.N.1.2	Design and conduct a study using repeated trials and replication.	SE: Unit 1, Lesson 3, pp. 26–37; Unit 4 STEM, pp. 24–244 TE: Unit 1, Lesson 3, pp. 42–55; Unit 4 STEM, pp. 320–323 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigation; Unit 4 STEM: Harnessing Tidal Energy Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigation; Unit 4 STEM: Harnessing Tidal Energy
SC.8.N.1.3	Use phrases such as "results support" or "fail to	Lab (Lab Manual): Unit 1, Lesson 3 Quick Lab: Growing Microorganisms; Unit 6 Exploration Lab: Change of Pace SE: Unit 1, Lesson 2, pp. 16–25; Unit 4 STEM, pp. 240–244; Unit 5 Think Science, pp. 282–283
	support" in science, understanding that science does not offer conclusive 'proof' of a knowledge claim.	TE: Unit 1, Lesson 2, pp. 28–41; Unit 4 STEM, pp. 320–323; Unit 5 Think Science, pp. 372–373 Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 4 STEM: Harnessing Tidal Energy; Unit 5 Think Science: Testing and Modifying Theories Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 4 STEM: Harnessing Tidal Energy; Unit 5 Think Science: Testing and Modifying Theories
		Labs (Lab Manual): Unit 1, Lesson Quick Lab: Does the Evidence Support the Explanation; Unit 1, Lesson 2 Quick Lab: Creating a Timeline of a Theory; Unit 6 Exploration Lab: Comparing Buoyancy Virtual Lab(s): Unit 1, Lesson 5: Scientists at Work

SC.8.N.1.4	Explain how hypotheses are valuable if they lead to	SE: Unit 1, Lesson 3, pp. 26–37; Unit 1 Think Science, pp. 38–39; Unit 3, Lesson 1, pp. 116–125; Unit 3, Lesson 2, 128–141
	further investigations, even if they turn out not to be supported by the data.	TE: Unit 1, Lesson 3, pp. 42–55; Unit 1 Think Science, pp. 56–57; Unit 3, Lesson 1, pp. 164–176; Unit 3, Lesson 2, 180–194
	,	Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 1 Think Science: Supporting Hypotheses; Unit 3, Lesson 1, Historical
		Models of the Solar System; Unit 3, Lesson 2, Gravity and the Solar System
		Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations; Unit 1 Think Science: Supporting Hypotheses; Unit 3, Lesson 1, Historical Models
		of the Solar System; Unit 3, Lesson 2, Gravity and the Solar System
		Labs (Lab Manual): Unit 1, Lesson 3 Quick Lab: Revising Your Hypothesis; Unit 6, Lesson 1 Quick Lab: How Much Mass
		Virtual Lab(s): Unit 1, Lesson 5: Scientists at Work; Unit 6, Lesson 3: Change of Pace
SC.8.N.1.5	Analyze the methods used to develop a scientific explanation as seen in different fields of science.	SE: Unit 1, Lesson 2, pp. 16–25; Unit 1, Lesson 3, pp. 26–37; Unit 1, Lesson 4, pp. 40–51; Unit 1, Lesson 6, pp. 62–73; Unit 1 STEM, pp. 73–77; Unit 2, Lesson 1, pp. 86–95; Unit 2 People in Science, pp. 96–97; Unit 3, Lesson 1, pp. 116–125; Unit 3, Lesson 2, pp. 128–141; Unit 3, Lesson 4, pp. 154–167; Unit 5, Lesson 2, pp. 268–281; Unit 6, Lesson 7, pp. 392–403
		TE: Unit 1, Lesson 2, pp. 28–41; Unit 1, Lesson 3, pp. 42–55; Unit 1, Lesson 4, pp. 58–71; Unit 1, Lesson 6, pp. 86–99; Unit 1 STEM, pp. 100–103; Unit 2, Lesson 1, pp. 116–128; Unit 2 People in Science, pp. 130–131; Unit 3, Lesson 1, pp. 164–176; Unit 3, Lesson 2, pp. 180–194; Unit 3, Lesson 4, pp. 210–225; Unit 5, Lesson 2, pp. 356–370; Unit 6, Lesson 7, pp. 510–523
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data; Unit 1, Lesson 6, The Engineering Design Process; Unit 1 STEM: Analyzing Water Power; Unit 2, Lesson 1, Structure of the Universe; Unit 2 People in Science: Hakeem Oluseyi; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 3, Lesson 2, Gravity and the Solar System; Unit 4, Lesson 4, The Terrestrial Planets; Unit 5, Lesson 2, Technology for Space Exploration; Unit 6, Lesson 7, The Periodic Table
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data; Unit 1, Lesson 6, The Engineering Design Process; Unit 1 STEM: Analyzing Water Power; Unit 2, Lesson 1, Structure of the Universe; Unit 2 People in Science: Hakeem Oluseyi; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 3, Lesson 2, Gravity and the Solar System; Unit 4, Lesson 4, The Terrestrial Planets; Unit 5, Lesson 2, Technology for Space Exploration; Unit 6, Lesson 7, The Periodic Table
		Many labs address this benchmark, including the following: Lab(s): Unit 1, Lesson 2 Quick Lab: Does the Evidence Support the Explanation?; Unit 2, Lesson 2 Quick Lab: Using a Sky Map; Unit 2 Field Lab: Investigating Parallax; Unit 5 STEM/Field Lab: Making a Telescope; Unit 6 Exploration Lab: Identifying Unknown Samples; Unit 6, Lesson 5 Quick Lab: The pH Scale; Unit 6, Lesson 7 Quick Lab: rearranging the Periodic Table; Unit 7, Lesson 1 Quick Lab: reversing Equations; Unit 7, Lesson 1 Quick Lab: Investigating Respiration with Chemical Indicators
		Virtual Lab(s): Unit 1, Lesson 5: Scientists at Work

SC.8.N.1.6	Understand that scientific investigations involve the	SE: Unit 1, Lesson 1, pp. 4–15; Unit 1 Lesson 3, pp. 26–37; Unit 1, Lesson 4, pp. 40–51; Unit 1, Lesson 6, pp. 62–73; Unit 1 STEM, pp. 73–77; Unit 2, Lesson 2, pp.
	collection of relevant empirical evidence, the use of	98–107; Unit 3, Lesson 1, pp. 116–125; Unit 3, Lesson 2, pp. 128–141; Unit 4 Think Science, pp. 228–229; Unit 6 Think Science, pp. 320–321; Unit 6, Lesson 3, pp.
	logical reasoning, and the application of imagination in	
	devising hypotheses, predictions, explanations and	TE: Unit 1, Lesson 1, pp. 14–27; Unit 1, Lesson 3, pp. 42–55; Unit 1, Lesson 4, pp. 58–71; Unit 1, Lesson 6, pp. 86–99; Unit 1 STEM, pp. 100–103; Unit 2, Lesson 2, pp. 432, 1434 Unit 3, Lesson 1, pp. 426, 437; Unit 6, Lesson 3, pp. 426, 437; Unit 6, Lesson 4, pp. 56, 437; Unit 6, Lesson 4, pp.
	models to make sense of the collected evidence.	pp. 132–144; Unit 3, Lesson 1, pp. 164–176; Unit 3, Lesson 2, pp. 180–194; Unit 4 Think Science, pp. 304–305; Unit 6 Think Science, pp. 426–427; Unit 6, Lesson 3, pp. 446–450; Unit 6 Think Science, pp. 460–463
		pp. 446–459; Unit 6 STEM, pp. 460–463
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data; Unit 1, Lesson 6, The Engineering Design Process; Unit 1 STEM: Analyzing Water Power; Unit 2, Lesson 2, Stars; Unit 3, Lesson 1, Historical Models of the Solar System' Unit 3, Lesson 2, Gravity and Solar System; Unit 4 Think Science: Analyzing Methods of Scientific Explanation; Unit 6 Think Science: Determining Relevant
		Information; Unit 6, Lesson 3, Physical and Chemical Changes; Unit 6 STEM: Building an Insulated Cooler;
		Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data; Unit 1,
		Lesson 6, The Engineering Design Process; Unit 1 STEM: Analyzing Water Power; Unit 2, Lesson 2, Stars; Unit 3, Lesson 1, Historical Models of the Solar System'
		Unit 3, Lesson 2, Gravity and Solar System; Unit 4 Think Science: Analyzing Methods of Scientific Explanation; Unit 6 Think Science: Determining Relevant
		Information; Unit 6, Lesson 3, Physical and Chemical Changes; Unit 6 STEM: Building an Insulated Cooler;
		Lab(s): Unit 1, Lesson 1 Quick Lab: Evaluate Scientific Investigations; Unit 1, Lesson 1 Quick Lab: Inventor Trading Cards; Unit 1, Lesson 3 Quick Lab: Revising Your
		Hypothesis; Unit 1, Lesson 4 Quick Lab: Atomic Model; Unit 1, Lesson 4 Quick Lab: Models of Types of Solids; Unit 3, Lesson 1 Quick Lab: The Geocentric Model of
		the Solar System; Unit 3, Lesson 2 Quick Lab: Orbital Ellipses; Unit 3, Lesson 6 Quick Lab: Orbits of Comets; Unit 4, Lesson 2 Quick Lab: Moon Phases; Unit 4,
		Lesson 2 Quick Lab: Lunar Eclipse; Unit 4, Lesson 3 Quick Lab: Tidal Math; Unit 7, Lesson 2 Quick Lab: Body Size and Temperature
SC.8.N.2.1	Distinguish between scientific and pseudoscientific	SE: Unit 1, Lesson 1, pp. 4–15; Unit 6 Think Science, pp. 320–321; Unit 6 Think Science, pp. 320–321
	ideas.	TE: Unit 1, Lesson 1, pp. 14–27; Unit 6 Think Science, pp. 426–427; Unit 6 Think Science, pp. 426–427
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 6 Think Science: Determining Relevant Information
		Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 6 Think Science: Determining Relevant Information
		Labs (Lab Manual): Unit 1 Exploration Lab: Science-Based Commercials; Unit 1, Lesson 1 Quick Lab: Evaluate Scientific Investigations
SC.8.N.2.2	Discuss what characterizes science and its methods.	SE: Unit 1, Lesson 1, pp. 4–15; Unit 3, Lesson 2, pp. 128–141; Unit 3 People in Science, pp. 168–169; Unit 4 Think Science, pp. 228–229
		TE: Unit 1, Lesson 1, pp. 14–27; Unit 3, Lesson 2, pp. 180–194; Unit 3 People in Science, pp. 226–227; Unit 4 Think Science, pp. 304–305
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 3, Lesson 2, Gravity and the Solar System; Unit 3 People in Science: A. Wesley
		Ward; Unit 4 Think Science: Analyzing Methods of Scientific Explanation Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 3, Lesson 2, Gravity and the Solar System; Unit 3 People in Science: A. Wesley
		Ward; Unit 4 Think Science: Analyzing Methods of Scientific Explanation
		Labs (Lab Manual): Unit 1, Lesson 1 Quick Lab: Inventor Trading Cards; Unit 1 Exploration Lab: Science-Based Commercials; Unit 3, Lesson 1 Quick Lab: The
		Heliocentric Model of the Solar System; Unit 6, Lesson 2 Quick Lab: Will It Sink or Will It Float?; Unit 6, Lesson 3 Quick Lab: Physical or Chemical Change?; Unit 6,
		Lesson 3 Quick Lab: What's in a Change?; Unit 6, Lesson 6 Quick Lab: Atomic and Subatomic Particles; Unit 6, Lesson 7 Quick Lab: Recognizing Patterns; Unit 7,
1		Lesson 1 Quick Lab: Making Compost

SC.8.N.3.1	Select models useful in relating the results of their own	SE: Unit 1, Lesson 4, pp. 40–51; Unit 2, Lesson 1, pp. 86–95; Unit 2, Lesson 2, pp. 98–107; Unit 6, Lesson 4, pp. 354–363; Unit 7, Lesson 2, pp. 428–439
	investigations.	TE: Unit 1, Lesson 4, pp. 58–71; Unit 2, Lesson 1, pp. 116–128; Unit 2, Lesson 2, pp. 132–144; Unit 6, Lesson 4, pp. 464–476; Unit 7, Lesson 2, pp. 554–567
		Student Interactive Digital Curriculum: Unit 1, Lesson 4, Representing Data; Unit 2, Lesson 1, Structure of the Universe; Unit 2, Lesson 2, Stars; Unit 6, Lesson 4,
		States of Matter; Unit 7, Lesson 2, Energy and Matter in Ecosystems
		Teacher Digital Management Center: Unit 1, Lesson 4, Representing Data; Unit 2, Lesson 1, Structure of the Universe; Unit 2, Lesson 2, Stars; Unit 6, Lesson 4,
		States of Matter; Unit 7, Lesson 2, Energy and Matter in Ecosystems
		Labs (Lab Manual): Unit 2, Lesson 1 Quick Lab: Modeling the Expanding Universe; Unit 2, Lesson 2 Quick Lab: Modeling Star Magnitudes; Unit 2 Exploration Lab:
		Star Colors and Temperatures; Unit 3 Exploration Lab: Weights on Different Celestial Bodies; Unit 3 Exploration Lab: Create a Model of the Sun; Unit 4
		Exploration/STEM Lab: Why the Moon Orbits; Unit 5, Lesson 1 Quick Lab: A Model of the Expanding Universe
		Virtual Lab(s): Unit 2, Lesson 2: Using Color to Measure Temperature
SC.8.N.3.2	Explain why theories may be modified but are rarely	SE : Unit 1, Lesson 2, pp. 16–25; Unit 3, Lesson 1, pp. 116–125; Unit 5 Think Science, pp. 282–283
	discarded.	TE: Unit 1, Lesson 2, pp. 28–41; Unit 3, Lesson 1, pp. 164–176; Unit 5 Think Science, pp. 372–373
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 5 Think Science:
		Testing and Modifying Theories
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 5 Think Science: Testing
		and Modifying Theories
		Lab (Lab Manual): Unit 1, Lesson 2 Quick Lab: Creating a Timeline of a Theory
		Virtual Lab(s): Unit 1, Lesson 5: Scientists at Work
SC.8.N.4.1	Explain that science is one of the processes that can be used to inform decision making at the community,	ESE: Unit 1, Lesson 5, pp. 52–61; Unit 3 Focus on Florida, pp. 182–183; Unit 5 People in Science, pp. 266–267; Unit 5, Lesson 2, pp. 268–281; Unit 5, Lesson 3, pp. 284–297; Unit 6 People in Science, pp. 336–337;
	state, national, and international levels.	TE: Unit 1, Lesson 5, pp. 72–84; Unit 3 Focus on Florida, pp. 242–243; Unit 5 People in Science, pp. 354–355; Unit 5, Lesson 2, pp. 356–370; Unit 5 , Lesson 3, pp.
		374–388; Unit 6 People in Science, pp. 444–445
		Student Interactive Digital Curriculum: Unit 1, Lesson 5, Science and Society; Unit 3 Focus on Florida: Florida Stargazing; Unit 5 People in Science: Sandra Faber;
		Unit 5, Lesson 2, Technology for Space Exploration; Unit 5, Lesson 3, Space Exploration and Florida; Unit 6 People in Science: Shirley Ann Jackson
		Teacher Digital Management Center: Unit 1, Lesson 5, Science and Society; Unit 3 Focus on Florida: Florida Stargazing; Unit 5 People in Science: Sandra Faber;
		Unit 5, Lesson 2, Technology for Space Exploration; Unit 5, Lesson 3, Space Exploration and Florida; Unit 6 People in Science: Shirley Ann Jackson
		Lab(s): Unit 1, Lesson 5 Quick Lab: Science in the News; Unit 5, Lesson 3 Quick Lab: Florida Economics without NASA
		Virtual Lab(s): Unit #, Lesson #: Title of Virtual Lab; Unit #, Lesson #: Title of Virtual Lab
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SC.8.N.4.2	Explain how political, social, and economic concerns can affect science, and vice versa.	SE: Unit 1, Lesson 5, pp. 52–61; Unit 3 Focus on Florida, pp. 182–183; Unit 5, Lesson 1, pp. 252–265; Unit 5, Lesson 2, pp. 268–281; Unit 5, Lesson 3, 284–297; Unit 6 People in Science, pp. 336–337 TE: Unit 1, Lesson 5, pp. 72–84; Unit 3 Focus on Florida, pp. 242–243; Unit 5, Lesson 1, pp. 338–352; Unit 5, Lesson 2, pp. 356–370; Unit 5, Lesson 3, 374–388; Unit 6 People in Science, pp. 428–442 Student Interactive Digital Curriculum: Unit 1, Lesson 5, Science and Society; Unit 3, Focus on Florida: Florida Stargazing; Unit 5, Lesson 1, Images from Space; Unit 5, Lesson 2, Technology for Space Exploration; Unit 5, Lesson 3, Space Exploration and Florida; Unit 6 People in Science: Shirley Ann Jackson
		Teacher Digital Management Center: Unit 1, Lesson 5, Science and Society; Unit 3, Focus on Florida: Florida Stargazing; Unit 5, Lesson 1, Images from Space; Unit 5, Lesson 2, Technology for Space Exploration; Unit 5, Lesson 3, Space Exploration and Florida; Unit 6 People in Science: Shirley Ann Jackson Lab(s): Unit 1, Lesson 5 Quick Lab: The Science of Product Design; Unit 1, Lesson 6 Quick Lab: Designing a Consumer Product; Unit 5, Lesson 3 Quick Lab: Florida
		Economics without NASA
SC.8.P.8.1	Explore the scientific theory of atoms (also known as atomic theory) by using models to explain the motion of particles in solids, liquids, and gases.	SE: Unit 6, Lesson 4, pp. 354–363 TE: Unit 6, Lesson 4, pp. 464–476
		Student Interactive Digital Curriculum: Unit 6, Lesson 4, States of Matter Teacher Digital Management Center: Unit 6, Lesson 4, States of Matter Labs (Lab Manual): Unit 6, Lesson 4 Quick Lab: Boiling Water Without Heating It; Unit 6, Lesson 4 Quick Lab: Bottle of Vapor; Unit 6, Lesson 4 Quick Lab:
		Changing Volumes
SC.8.P.8.2	Differentiate between weight and mass recognizing that weight is the amount of gravitational pull on an object and is distinct from, though proportional to,	SE: Unit 6, Lesson 1, pp. 306–319 TE: Unit 6, Lesson 1, pp. 410–424
	mass.	Student Interactive Digital Curriculum: Unit 6, Lesson 1, Introduction to Matter Teacher Digital Management Center: Unit 6, Lesson 1, Introduction to Matter
		Labs (Lab Manual): Unit 6, Lesson 1 Quick Lab: Mass and Weight; Unit 6, Lesson 1 Quick Lab: How Much Mass?
SC.8.P.8.3	Explore and describe the densities of various materials through measurement of their masses and volumes.	SE: Unit 6, Lesson 1, pp. 306–319 TE: Unit 6, Lesson 1, pp. 410–424
		Student Interactive Digital Curriculum: Unit 6, Lesson 1, Introduction to Matter Teacher Digital Management Center: Unit 6, Lesson 1, Introduction to Matter
		Lab (Lab Manual): Unit 6 Exploration Lab: Comparing Buoyancy
SC.8.P.8.4	Classify and compare substances on the basis of characteristic physical properties that can be demonstrated or measured; for example, density,	SE: Unit 6, Lesson 2, pp. 322–335 TE: Unit 6, Lesson 2, pp. 428–442
	thermal or electrical conductivity, solubility, magnetic properties, melting and boiling points, and know that these properties are independent of the amount of the	Student Interactive Digital Curriculum: Unit 6, Lesson 2, Properties of Matter Teacher Digital Management Center: Unit 6, Lesson 2, Properties of Matter
	sample.	Labs (Lab Manual): Unit 6 Exploration Lab: Identifying Unknown Samples; Unit 6, Lesson 2 Quick Lab: Will It Sink or Float?; Unit 6, Lesson 2 Quick Lab: Natural vs. Synthetic Fibers; Unit 6, Lesson 2 Quick Lab: Growing Crystals
		Virtual Lab(s): Unit 6, Lesson 2: Determining Density

SC.8.P.8.5	Recognize that there are a finite number of elements	SE: Unit 6, Lesson 5, pp. 364–377
	and that their atoms combine in a multitude of ways to	TE: Unit 6, Lesson 5, pp. 478–492
	produce compounds that make up all of the living and	
	nonliving things that we encounter.	Student Interactive Digital Curriculum: Unit 6, Lesson 5, Pure Substances and Mixtures
		Teacher Digital Management Center: Unit 6, Lesson 5, Pure Substances and Mixtures
		Lab (Lab Manual): Unit 6, Lesson 5 Quick Lab: Comparing Two Elements
SC.8.P.8.6	Recognize that elements are grouped in the periodic	SE: Unit 6, Lesson 7, pp. 392–403
	table according to similarities of their properties.	TE: Unit 6, Lesson 7, pp. 510–523
		Student Interactive Digital Curriculum: Unit 6, Lesson 7, The Periodic Table
		Teacher Digital Management Center: Unit 6, Lesson 7, The Periodic Table
		Labs (Lab Manual): Unit 6, Lesson 7 Quick Lab: Predicting Properties; Unit 6, Lesson 7 Quick Lab: Rearranging the Periodic Table; Unit 6, Lesson 7 Quick Lab:
		Recognizing Patterns
SC.8.P.8.7	Explore the scientific theory of atoms (also known as	SE: Unit 6, Lesson 6, pp. 378–389
	atomic theory) by recognizing that atoms are the smallest unit of an element and are composed of sub-	TE: Unit 6, Lesson 6, pp. 496–507
	atomic particles (electrons surrounding a nucleus	Student Interactive Digital Curriculum: Unit 6, Lesson 6, The Atom
	containing protons and neutrons).	Teacher Digital Management Center: Unit 6, Lesson 6, The Atom
		Labs (Lab Manual): Unit 6, Lesson 6 Quick Lab: Atoms and Subatomic Particles; Unit 6, Lesson 6 Quick Lab: A Model Atom
SC.8.P.8.8	Identify basic examples of and compare and classify the	
	properties of compounds, including acids, bases, and salts.	TE: Unit 6, Lesson 5, pp. 478–492
		Student Interactive Digital Curriculum: Unit 6, Lesson 5, Pure Substances and Mixtures
		Teacher Digital Management Center: Unit 6, Lesson 5, Pure Substances and Mixtures
		Lab (Lab Manual): Unit 6, Lesson 5 Quick Lab: The pH Scale
SC.8.P.8.9	Distinguish among mixtures (including solutions) and	SE: Unit 6, Lesson 5, pp. 364–377; Unit 6 Focus on Florida, pp. 390–391
	pure substances.	TE: Unit 6, Lesson 5, pp. 478–492; Unit 6 Focus on Florida, pp. 508–509
		Student Interactive Digital Curriculum: Unit 6, Lesson 5, Pure Substances and Mixtures; Unit 6 Focus on Florida: Mixtures in Florida
		Teacher Digital Management Center: Unit 6, Lesson 5, Pure Substances and Mixtures; Unit 6 Focus on Florida: Mixtures in Florida
SC.8.P.9.1	Explore the Law of Conservation of Mass by	SE: Unit 6, Lesson 3, pp. 338–349
	demonstrating and concluding that mass is conserved	TE: Unit 6, Lesson 3, pp. 446–459
	when substances undergo physical and chemical	
	changes.	Student Interactive Digital Curriculum: Unit 6, Lesson 3, Physical and Chemical Changes
		Teacher Digital Management Center: Unit 6, Lesson 3, Physical and Chemical Changes
		Lab (Lab Manual): Unit 6, Lesson 3 Quick Lab: What's in a Change?
		Virtual Lab(s): Unit 6, Lesson 3: Change of Pace

SC.8.P.9.2	Differentiate between physical changes and chemical	SE: Unit 6, Lesson 3, pp. 338–349
30.0.1 .3.2	changes.	TE: Unit 6, Lesson 3, pp. 446–459
	changes.	The office of cesser of pp. 440
		Student Interactive Digital Curriculum: Unit 6, Lesson 3, Physical and Chemical Changes
		Teacher Digital Management Center: Unit 6, Lesson 3, Physical and Chemical Changes
		, , , , , , , , , , , , , , , , , , , ,
		Labs (Lab Manual): Unit 6, Lesson 3 Quick Lab: Physical or Chemical Change?; Unit 6, Lesson 3 Quick Lab: Properties of Combined Substances
SC.8.P.9.3	Investigate and describe how temperature influences	SE : Unit 6, Lesson 3, pp. 338–349
	chemical changes.	TE: Unit 6, Lesson 3, pp. 446–459
		Student Interactive Digital Curriculum: Unit 6, Lesson 3, Physical and Chemical Changes
		Teacher Digital Management Center: Unit 6, Lesson 3, Physical and Chemical Changes
		Virtual Lab(s): Unit 6, Lesson 3: Change of Pace
LAFS.68.RST.1.1	Cite specific textual evidence to support analysis of	This standard is covered throughout the program. The following are some of the many examples:
2 11 51051115 11212	science and technical texts.	SE: Unit 2, Lesson 1, p. 89; Unit 3, Lesson 1, p. 119; Unit 6, Lesson 2, p. 326; Unit 6, Lesson 3 STEM, pp. 350–353
	soletide dita teolitimati textor	TE: Unit 2, Lesson 1, p. 125; Unit 3, Lesson 1, p. 173; Unit 6, Lesson 2, p. 438; Unit 6, Lesson 3 STEM, pp. 460–463
		Student Interactive Digital Curriculum: Unit 2, Lesson 1, Structure of the Universe; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 6, Lesson 2,
		Properties of Matter; Unit 6, Lesson 3 Stem: Building an Insulated Cooler
		Teacher Digital Management Center: Unit 2, Lesson 1, Structure of the Universe; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 6, Lesson 2,
		Properties of Matter; Unit 6, Lesson 3 Stem: Building an Insulated Cooler
LAFS.68.RST.1.2	Determine the central ideas or conclusions of a text:	This standard is covered throughout the program. The following are some of the many examples:
	provide an accurate summary of the text distinct from	TE: Unit 1, Lesson 1, p. 23; Unit 3, Lesson 2, p. 193; Unit 5, Lesson 1, p. 347; Unit 5, Lesson 3, p. 385
	prior knowledge or opinions.	
		Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 3, Lesson 2, Gravity and the Solar System; Unit 5, Lesson 1, Images from Space;
		Unit 5, Lesson 3, Space Exploration and Florida
LAFS.68.RST.1.3	Follow precisely a multistep procedure when carrying	This standard is covered throughout the program. The following are some of the many examples:
	out experiments, taking measurements, or performing	SE: Unit 4, Lesson 3 STEM, pp. 240–243
	technical tasks.	TE: Unit 1 Lesson 1, p. 17; Unit 4, Lesson 3 STEM, pp. 320–323; Unit 6, Lesson 4, p. 466
		Student Interactive Digital Curriculum: Unit 4, Lesson 3 STEM: Harnessing Tidal Energy
		Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 4, Lesson 3 STEM: Harnessing Tidal Energy; Unit 6, Lesson 4, States of Matter
		reacher Digital Management Center. Offic 1, Lesson 1, What is Science:, Offic 4, Lesson 3 31EW. Harnessing Huai Energy, Offic 0, Lesson 4, States of Matter
LAFS.68.RST.2.4	Determine the meaning of symbols, key terms. and	This standard is covered throughout the program. The following are some of the many examples:
	other domain-specific words and phrases as they are	SE: Unit 1, Lesson 1, p. 5; Unit 3, Lesson 1, p. 117; Unit 6, Lesson 1, p. 307; Unit 7, Lesson 2, p. 429
	1	TE: Unit 1, Lesson 1, p. 22; Unit 3, Lesson 1, p. 172; Unit 6, Lesson 1, p. 418; Unit 7, Lesson 2, p. 562
	to grades 6–8 texts and topics.	
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 3, Lesson 1, Gravity and the Solar System; Unit 7, Lesson 2, Energy and Matter in
		Ecosystems
	1	L ,
		Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 3, Lesson 1, Gravity and the Solar System; Unit 7, Lesson 2, Energy and Matter in
LAFS.68.RST.2.4	used in a specific scientific or technical context relevant	TE: Unit 1, Lesson 1, p. 22; Unit 3, Lesson 1, p. 172; Unit 6, Lesson 1, p. 418; Unit 7, Lesson 2, p. 562 Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 3, Lesson 1, Gravity and the Solar System; Unit 7, Lesson 2, Energy and Recosystems

LAFS.68.RST.2.5	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.	TE: Unit 3, Lesson 3, p. 205; Unit 5, Lesson 1 People in Science, p. 355; Unit 6, Lesson 6 Focus on Florida, p. 509; Unit 7, Lesson 1, p. 547 Teacher Digital Management Center: Unit 3, Lesson 3, The Sun; Unit 5, Lesson 1 People in Science: Sandra Faber; Unit 6, Lesson 6 Focus on Florida: Mixtures in Florida; Unit 7, Lesson 1, Photosynthesis and Cellular Respiration
LAFS.68.RST.2.6	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	TE: Unit 1, Lesson 1, p. 21 (see Alternative Assessment "Analysis" task); Unit 2, Lesson 1 (Alternative Assessment), p. 123 Within the Lab Manual are Quick Labs, STEM Labs, and Exploration Labs students can use to analyze the author's purpose. For example: Unit 1, Lesson 2 Quick Lab: Create a Time Line of a Theory
LAFS.68.RST.3.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 1, p. 14; Unit 1, Lesson 4, pp. 40–51; Unit 5, Lesson 3, pp. 294–295 TE: Unit 1, Lesson 1, p. 27; Unit 1, Lesson 4, pp. 66–71; Unit 5, Lesson 3, p. 387 Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 1, Lesson 4, Representing Data; Unit 5, Lesson 3, Space Exploration and Florida Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?; Unit 1, Lesson 4, Representing Data; Unit 5, Lesson 3, Space Exploration and Florida
LAFS.68.RST.3.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	SE: Unit 1, Lesson 1, p. 7, 8, 13; Unit 1, Lesson 4, p. 50 TE: Unit 1, Lesson 1, p. 23, 24, 26 Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 1, Lesson 4, Representing Data Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?
LAFS.68.RST.3.9	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	SE: Unit 1, Lesson 3, p. 35 TE: Unit 1, Lesson 3, p. 54 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations
LAFS.68.RST.4.10	By the end of grade 8, read and comprehend science/technical texts in the grades 6–8 text complexity band independently and proficiently.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 2, p. 22; Unit 1, Lesson 3, p. 32 ("Think Outside the Book") TE: Unit 1, Lesson 2, p. 22; Unit 1, Lesson 3, p. 53 ("Think Outside the Book"); Unit 1, Lesson 2, p. 33

LAFS.68.WHST.2.4	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 3, p. 28; Unit 6, Lesson 3, p. 342; Unit 6, Lesson 4, p. 361; Unit 7, Lesson 1, p. 419 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 6, Lesson 3, Physical and Chemical Changes; Unit 6, Lesson 4 States of Matter; Unit 7, Lesson 1, Photosynthesis and Cellular Respiration
LAFS.68.WHST.2.5	With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed.	SE: Unit 1, Lesson 2, pp. 22–23 TE: Unit 1, Lesson 2, p. 39 Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge
LAFS.68.WHST.2.6	Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 2, p. 22; Unit 6, Lesson 4, p. 361 TE: Unit 3, Lesson 5 Focus on Florida, p. 242; Unit 4, Lesson 2 Think Science, p. 304; Unit 5, Lesson 1 People in Science, p. 354; Unit 6, Lesson 4, p. 475 Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 6, Lesson 4, States of Matter Teacher Digital Management Center: Unit 3, Lesson 5 Focus on Florida: Florida Stargazing; Unit 4, Lesson 2 Think Science: Analyzing Methods of Scientific Explanation; Unit 5, Lesson 1, People in Science: Sandra Faber; Unit 6, Lesson 4, States of Matter
LAFS.68.WHST.3.7	Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 2, p. 22; Unit 1, Lesson 3, p. 32; Unit 3, Lesson 5, p. 177; Unit 6, Lesson 4, p. 361 TE: Unit 1, Lesson 2, p. 39; Unit 1, Lesson 3, p. 53; Unit 3, Lesson 5, p. 239; Unit 6, Lesson 4, p. 475 Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 3, Scientific Investigations; Unit 3, Lesson 5, The Gas Giant Planets; Unit 6, Lesson 4, States of Matter Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 3, Scientific Investigations; Unit 3, Lesson 5, The Gas Giant Planets; Unit 6, Lesson 4, States of Matter
LAFS.68.WHST.3.8	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 3, p. 35; Unit 1, Lesson 5, p. 53; Unit 3, Lesson 1, p. 118; Unit 6, Lesson 4, p. 361 TE: Unit 1, Lesson 3, p. 54; Unit 1, Lesson 5, p. 80; Unit 3, Lesson 1, p. 173; Unit 6, Lesson 4, p. 475 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 5, Science and Society; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 6, Lesson 4, States of Matter Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 5, Science and Society; Unit 3, Lesson 1, Historical Models of the Solar System; Unit 6, Lesson 4, States of Matter
LAFS.68.WHST.3.9	Draw evidence from informational texts to support analysis reflection, and research.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 2, p. 21; Unit 4, Lesson 2, p. 221; Unit 5, Lesson 1, p. 257; Unit 7, Lesson 1, p. 423 TE: Unit 1, Lesson 2, p. 38; Unit 4, Lesson 2, p. 299; Unit 5, Lesson 1, p. 348; Unit 7, Lesson 1, p. 550 Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 4, Lesson 2, Moon Phases and Eclipses; Unit 5, Lesson 1, Images from Space; Unit 7, Lesson 1, Photosynthesis and Cellular Respiration Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 4, Lesson 2, Moon Phases and Eclipses; Unit 5, Lesson 1, Images from Space; Unit 7, Lesson 1, Photosynthesis and Cellular Respiration

LAFS.68.WHST.4.10	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 2, p. 21; Unit 3, Lesson 5 Focus on Florida, p. 183; Unit 6, Lesson 3, p. 341; Unit 7 Citizen Science, p. 412 TE: Unit 1, Lesson 2, p. 38; Unit 3, Lesson 5 Focus on Florida, p. 243; Unit 6, Lesson 3, p. 455; Unit 7 Citizen Science, p. 537 Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 3, Lesson 5 Focus on Florida: Florida Stargazing; Unit 6, Lesson 3, Physical and Chemical Changes; Unit 7 Citizen Science: It's Alive!
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 3, Lesson 5 Focus on Florida: Florida Stargazing; Unit 6, Lesson 3, Physical and Chemical Changes; Unit 7 Citizen Science: It's Alive!
LAFS.8.SL.1.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly. a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion. b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed. c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas. d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 3, p. 27; Unit 1, Lesson 6, p. 63; Unit 2, Lesson 2, p. 105; Unit 6, Lesson 1, pp. 316–317 TE: Unit 1, Lesson 3, p. 50; Unit 1, Lesson 6, p. 94; Unit 2, Lesson 2, p. 143; Unit 6, Lesson 1, p. 423 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 6, The Engineering Design Process; Unit 2, Lesson 2, Stars; Unit 6, Lesson 1, Introductions to Matter Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 6, The Engineering Design Process; Unit 2, Lesson 2, Stars; Unit 6, Lesson 1, Introductions to Matter
LAFS.8.SL.1.2	Analyze the purpose of information presented in diverse media and formats (e.g., visually, quantitatively, orally) and evaluate the motives (e.g., social, commercial, political) behind its presentation.	Within the Lab Manual are Quick Labs, STEM Labs, and Exploration Labs students can use to analyze the purpose. The following are some of the many examples: SE: Unit 1, Lesson 2, p. 22; Unit 1, Lesson 3, p. 32 ("Think Outside the Book") TE: Unit 1, Lesson 2, p. 22; Unit 1, Lesson 3, p. 53 ("Think Outside the Book"); Unit 1, Lesson 2, p. 33
LAFS.8.SL.1.3	Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and relevance and sufficiency of the evidence and identifying when irrelevant evidence is introduced.	This standard is covered throughout the program. The following are some of the many examples: SE: Unit 1, Lesson 1, p. 13; Unit 4, Lesson 2, p. 221; Unit 6, Lesson 4, p. 361; Unit 7, Lesson 1, p. 421 Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?; Unit 4, Lesson 2, Moon Phases and Eclipses; Unit 6, Lesson 4, States of Matter; Unit 7, Lesson 1, Photosynthesis and Cellular Respiration

LAFS.8.SL.2.4	Procent claims and findings, amphasizing salient points	This standard is covered throughout the program. The following are some of the many examples:
LAFS.8.SL.2.4		TE: Unit 1, Lesson 2, p. 39; Unit 2, Lesson 1 People in Science, p. 130; Unit 3, Lesson 4 People in Science, p. 226; Unit 5, Lesson 1 People in Science, p. 354; Unit 6,
	·	Lesson 6 Focus on Florida, p. 508
	<u> </u>	Lesson o Pocus on Fiorida, p. 506
	appropriate eye contact, adequate volume, and clear	
	pronunciation.	Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 2, Lesson 1 People in Science: Hakeem Oluseyi; Unit 3, Lesson 4 People in
		Science: A. Wesley Ward; Unit 5, Lesson 1 People in Science: Sandra Faber; Unit 6, Lesson 6 Focus in Florida: Mixtures in Florida
LAFS.8.SL.2.5	Integrate multimedia and visual displays into	This standard is covered throughout the program. The following are some of the many examples:
L 11 3.0.3E.2.3	. ,	TE: Unit 3, Lesson 4 People in Science, p. 226; Unit 4, Lesson 2 Think Science, p. 304; Unit 6, Lesson 2 People in Science, p. 444; Unit 7, Lesson 2 STEM, p. 571
	and evidence, and add interest.	12. One 3, 263501 4 1 Copie in Science, p. 220, One 4, 263501 2 1 min Science, p. 304, One 0, 263501 2 1 Copie in Science, p. 444, One 7, 263501 2 1 Copie in Science, p. 371
	and evidence, and add interest.	Teacher Digital Management Center: Unit 3, Lesson 4 People in Science: A. Wesley Ward; Unit 4, Lesson 2 Think Science: Analyzing Methods of Scientific
		Explanation; Unit 6, Lesson 2 People in Science: Shirley Ann Jackson; Unit 7, Lesson 2 STEM: Design an Ecosystem
		Laxination, onit o, tesson 2 reopie in Science. Sinney Ann Jackson, onit 7, tesson 2 Stein. Design an ecosystem
MAFS.8.F.2.5	Describe qualitatively the functional relationship	SE: Unit 1, Lesson 4, pp. 42–47
	between two quantities by analyzing a graph (e.g.,	TE: Unit 1, Lesson 4, pp. 67–69
	where the function is increasing or decreasing, linear or	
	9	Student Interactive Digital Curriculum: Unit 1, Lesson 4, Representing Data
	, , , , , , , , , , , , , , , , , , , ,	Teacher Digital Management Center: Unit 1, Lesson 4, Representing Data
	reatures of a function that has been described verbally.	Tedaric Signal Management Center. Office 4, nepresenting Out
MAFS.8.G.3.9	Know the formulas for the volumes of cones, cylinders,	SE: Unit 6. Lesson 1. pp. 312–313
	and spheres and use them to solve real-world and	TE: Unit 6, Lesson 1, p. 421
	mathematical problems.	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3
	· · · · · · · · · · · · · · · · · · ·	Student Interactive Digital Curriculum: Unit 6, Lesson 1, Introduction to Matter
		Teacher Digital Management Center: Unit 6, Lesson 1, Introduction to Matter
		Teacher Digital Management Center. Ont 0, 123301 1, introduction to Matter
ELD.K12.ELL.SC.1	English language learners communicate information,	In the English Language Learners activities in every lesson, students communicate information, ideas, and concepts in the content area of Science. See, for
	ideas and concepts necessary for academic success in	example, the following:
	the content area of Science.	TE: Unit 1, Lesson 5, p. 77; Unit 2, Lesson 1, p. 121; Unit 3, Lesson 6, p. 249; Unit 6, Lesson 4, p. 469
		Teacher Digital Management Center: Unit 1, Lesson 5, Science and Society; Unit 2, Lesson 1, Structure of the Universe; Unit 3, Lesson 6, Small bodies in the Solar
		System; Unit 6, Lesson 4, States of Matter
ELD.K12.ELL.SI.1	English language learners communicate for social and	In the English Language Learners activities in every lesson, students communicate information, ideas, and concepts in the content area of Science. See, for
-	instructional purposes within the school setting.	example, the following:
		TE: Unit 1, Lesson 6 STEM, p. 103; Unit 4, Lesson 3 STEM, p. 323; Unit 6, Lesson 3 STEM, p. 463; Unit 7, Lesson 2 STEM, p. 571
		Teacher Digital Management Center: Unit 1, Lesson 6 STEM: Analyzing Water Power; Unit 4, Lesson 3 STEM: Harnessing Tidal Power; Unit 6, Lesson 3 STEM:
		Building an Insulated Cooler; Unit 7, Lesson 2 STEM: Design an Ecosystem