



Correlation to the Florida Course Description for M/J Physical Science Course Code 2003010

HMH Florida Science: Physical Science ©2019

BID ID:	<u>3271</u>
SUBMISSION TITLE:	HMH Florida Science: Physical Science ©2019
GRADE LEVEL:	<u>6–8</u>
COURSE TITLE:	M/J Physical Science
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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 SE and TE with the page numbers of lesson, a link to lesson, or other identifier for easy lookup by reviewers.)
	curriculum, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigation 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. 24–37; Unit 1, Lesson 4, pp. 38–47; Unit 1 Think Science, pp. 48–49; Unit 5 Think Science, pp. 322–323 TE: Unit 1, Lesson 3, pp. 42–57; Unit 1, Lesson 4, pp. 58–71; Unit 1 Think Science, pp. 72–73; Unit 5 Think Science, pp. 430–431 Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data; Unit 1 Think Science: Making Conclusions from Evidence; Unit 5 Think Science: Interpreting Graphs Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data; Unit 1 Think Science: Making Conclusions from Evidence; Unit 5 Think Science: Interpreting Graphs Many labs address this benchmark, including the following: Lab(s): Unit 1, Lesson 3 Quick Lab: How Machines Help; Unit 1, Lesson 4 Quick Lab: Modeling Eye Images; Unit 1, Lesson 5 Quick Lab: Design a Game about Goals; Unit 1, Lesson 6 Quick Lab: Defining a Problem; Unit 1 Exploration Lab: Measuring Speed; Unit 5, Lesson 2 Quick Lab: Free-Fall Distances; Unit 5, Lesson 4 Quick Lab: Net Force
		Virtual Lab(s): Evaluating an Investigation

SC.6.N.1.2	Explain why scientific investigations should be	SE : Unit 1, Lesson 3, pp. 24–37
	replicable.	TE : Unit 1, Lesson 3, pp. 42–57
		Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations
		Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations
		Lab(s): Unit 1, Lesson 3 Quick Lab: How Machines Help
		Virtual Lab(s): Evaluating an Investigation
SC.6.N.1.3	Explain the difference between an experiment	SE: Unit 1, Lesson 3, pp. 24–37
	and other types of scientific investigation, and explain the relative benefits and limitations of	TE: Unit 1, Lesson 3, pp. 42–57
	·	Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations
		Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations
		Virtual Lab(s): Evaluating an Investigation
SC.6.N.1.4	Discuss, compare, and negotiate methods used,	SE: Unit 1, Lesson 3, pp. 24–37; Unit 5 STEM, pp. 304–307
	results obtained, and explanations among groups of students conducting the same investigation.	TE: Unit 1, Lesson 3, pp. 42–57; Unit 5 STEM, pp. 410–413
	_	Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations; Unit 5 STEM: Engineering & Technology
		Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations; Unit 5 STEM: Engineering & Technology
		Virtual Lab(s): Unit 1, Lesson 3, Planning Investigations
SC.6.N.1.5	Recognize that science involves creativity, not	SE: Unit 1, Lesson 1, pp. 4–13; Unit 1 Think Science, pp. 48–49
	just in designing experiments, but also in creating explanations that fit evidence.	TE: Unit 1, Lesson 1, pp. 14–27; Unit 1 Think Science, pp. 72–73
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What Is Science?; Unit 1 Think Science: Making Conclusions from Evidence
		Teacher Digital Management Center: Unit 1, Lesson 1, What Is Science?; Unit 1 Think Science: Making Conclusions from Evidence
		Lab(s): Unit 5, Lesson 1 Quick Lab: Bungee Jumping; Unit 1, Lesson 1 Quick Lab: Pendulum Energy

SC.6.N.2.1	Distinguish science from other activities involving	SE: Unit 1, Lesson 1, pp. 4–13; Unit 2 Think Science, pp. 98–99
	thought.	TE: Unit 1, Lesson 1, pp. 14–27; Unit 2 Think Science, pp. 142–143
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What Is Science?; Unit 2 Think Science: Determining Relevant Information
		Teacher Digital Management Center: Unit 1, Lesson 1, What Is Science?; Unit 2 Think Science: Determining Relevant Information
		Many labs address this benchmark, including the following:
		Lab(s): Unit 1, Lesson 1 Quick Lab: Science Charades; Unit 2 Exploration Lab: Identifying Unknown Samples
SC.6.N.2.2	Explain that scientific knowledge is durable	SE: Unit 1, Lesson 2, pp. 14–23
	because it is open to change as new evidence or interpretations are encountered.	TE: Unit 1, Lesson 2, pp. 28–41
	<u>'</u>	Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge
		Lab(s): Unit 1, Lesson 1 Quick Lab: Science Charades; Unit 1, Lesson 1 Quick Lab: What Is the Process?; Unit 1, Lesson 2 Quick Lab: Theory or Claim?; Unit 1,
		Lesson 6 Quick Lab: Technology in Science
SC.6.N.2.3	Recognize that scientists who make	SE : Unit 1, Lesson 1, pp. 4–13; Unit 1, Lesson 5, pp. 50–59; Unit 5, People in Science, pp. 346–347
	contributions to scientific knowledge come from all kinds of backgrounds and possess varied	TE: Unit 1, Lesson 1, pp. 14–27; Unit 1, Lesson 5, pp. 74–87; Unit 5 People in Science, pp. 460–461
	talents, interests, and goals.	Student Interactive Digital Curriculum: Unit 1, Lesson 1, Scientific Knowledge; Unit 1, Lesson 5, Science in Society; Unit 5 People in Science: Steve Okamoto
		Teacher Digital Management Center: Unit 1, Lesson 1, Scientific Knowledge; Unit 1, Lesson 5, Science in Society; Unit 5 People in Science: Steve Okamoto
		Lab(s): Unit 1, Lesson 5 Quick Lab: Which Scientist Am I?; Unit 1, Lesson 5 Quick Lab: Design a Game about Goals; Unit 1 STEM La:, Investigate Digital
SC.6.N.3.1		SE: Unit 1, Lesson 2, pp. 14–23; Unit 2, Lesson 4, pp. 132–140
		TE: Unit 1, Lesson 2, pp. 28–41; Unit 2, Lesson 4, pp. 180–193
	of nature and is not simply a claim posed by an	
	individual. Thus, the use of the term theory in	Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 2, Lesson 4, States of Matter
	science is very different than how it is used in everyday life.	Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 2, Lesson 4, States of Matter
		Lab(s): Unit 1, Lesson 2 Quick Lab: Theory or Claim?; Unit 2, Lesson 4 Quick Lab: Boiling Water Without Heating It

SC.6.N.3.2		SE: Unit 1, Lesson 2, pp. 14–23
	description of a specific relationship under given conditions in the natural world. Thus, scientific	1ε: Offit 1, Lesson 2, pp. 28–41
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge
		Many labs address this benchmark, including the following:
		Lab(s): Unit 1 Exploration Lab: Scientific Law Game; Unit 5, Lesson 4 Quick Lab: Exploring Inertia
SC.6.N.3.3	Give several examples of scientific laws.	SE: Unit 1, Lesson 2, pp. 14–23; Unit 5, Lesson 1, pp. 294–303 ; Unit 5, Lesson 4, pp. 332–345
		TE: Unit 1, Lesson 2, pp. 28–41; Unit 5, Lesson 1, pp. 396–409; Unit 5, Lesson 4, pp. 444–459
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 5, Lesson 1, Kinetic and Potential Energy; Unit 5, Lesson 4, Forces Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 5, Lesson 1, Kinetic and Potential Energy; Unit 5, Lesson 4, Forces
		Lab(s): Unit 1, Lesson 2 Quick Lab: Hooke's Law; Unit 5, Lesson 3 Quick Lab: Centripetal Force; Unit 5, Lesson 4 Quick Lab: First Law of Skateboarding; Unit 5 Exploration Lab: Race to the Bottom; Unit 5 STEM Lab: Designing a Simple Device; Unit 5 STEM Lab: Newton's Laws of Motion
SC.6.N.3.4	Identify the role of models in the context of the	SE: Unit 1, Lesson 4, pp. 38–47
30.0.10.3.4	•	TE: Unit 1, Lesson 4, pp. 58–71
		Student Interactive Digital Curriculum: Unit 1, Lesson 4, Representing Data
		Teacher Digital Management Center: Unit 1, Lesson 4, Representing Data
		Lab(s): Unit 1, Lesson 4 Quick Lab: Modeling Eye Images; Unit 1, Lesson 4 Quick Lab: Modeling Delta Formation
		Virtual Lab(s): Unit 1, Lesson 4, Models of Landforms; Evaluating an Investigation

SC.6.P.11.1	Explore the Law of Conservation of Energy by	SE : Unit 5, Lesson 1, pp. 294–303
50.0.1 .11.1	differentiating between potential and kinetic	TE: Unit 5, Lesson 1, pp. 396–409
	energy. Identify situations where kinetic energy	TE. Offic 3, Lessoff 1, pp. 330–403
	is transformed into potential energy and vice	Student Interactive Digital Curriculum: Unit 5, Lesson 1, Kinetic and Potential Energy
	versa.	Teacher Digital Management Center: Unit 5, Lesson 1, Kinetic and Potential Energy
	versa.	reaction Digital Wallagement Center. Offic 3, Lesson 1, Killetic and Potential Energy
		Lab(s): Unit 5 Exploration Lab: Compound Machines; Unit 5 Exploration Lab: Building Windmills; Unit 5 STEM Lab: Designing a Simple Device
		Virtual Lab(s): Unit 5, Lesson 1, Kinetic and Potential Energy
SC.6.P.12.1	Measure and graph distance versus time for an	SE-Unit 5 Losson 2 nn 209-221
3C.0.F.12.1	object moving at a constant speed. Interpret this	
	relationship.	TE. Offic 3, Lesson 2, pp. 414–423
	Telationship.	Student Interactive Digital Curriculum: Unit 5, Lesson 2, Motion and Speed
		Teacher Digital Management Center: Unit 5, Lesson 2, Motion and Speed
		reactier Digital Management Center. Onlt 3, Lesson 2, Motion and Speed
		Lab(s): Unit 5, Lesson 2 Quick Lab: Free-Fall Distances; Unit 5 STEM Lab: Investigate Average Speed
		Virtual Lab(s): Unit 5, Lesson 2, Sliding Downhill
SC.6.P.13.1	Investigate and describe types of forces including	SE: Unit 5, Lesson 4, pp. 332–345; Unit 5, Lesson 5, pp. 348–357
00.0	contact forces and forces acting at a distance,	TE: Unit 5, Lesson 4, pp. 444–459; Unit 5, Lesson 5, pp. 462–475
	such as electrical, magnetic, and gravitational.	12. Gint 3, 2633011 4, pp. 444 433, Gint 3, 2633011 3, pp. 402 473
	such as electrical, magnetic, and gravitational.	Student Interactive Digital Curriculum: Unit 5, Lesson 4, Forces; Unit 5, Lesson 5, Gravity and Motion
		Teacher Digital Management Center: Unit 5, Lesson 4, Forces; Unit 5, Lesson 5, Gravity and Motion
		Tourist Digital management content offices, beason 4, 1 ordes, offices, content and motion
		Many labs address this benchmark, including the following:
		Lab(s): Unit 5, Lesson 3 Quick Lab: Centripetal Force; Unit 5, Lesson 3 Quick Lab: Direction of Acceleration; Unit 5, Lesson 4 Quick Lab: Forces on Fluids; Unit
		5 STEM Lab: Newton's Laws of Motion
		1

SC.6.P.13.2	Explore the Law of Gravity by recognizing that	SE: Unit 5, Lesson 5, pp. 348–357
		TE: Unit 5, Lesson 5, pp. 462–475
	other object and that the force depends on how	
	much mass the objects have and how far apart	Student Interactive Digital Curriculum: Unit 5, Lesson 5, Gravity and Motion
	they are.	Teacher Digital Management Center: Unit 5, Lesson 5, Gravity and Motion
		Lab(s): Unit 5, Lesson 5 Quick Lab: Gravity and Distance; Unit 5, Lesson 5 Quick Lab: Falling Water
SC.6.P.13.3	Investigate and describe that an unbalanced	SE: Unit 5, Lesson 4, pp. 332–345
	force acting on an object changes its speed, or direction of motion, or both.	TE: Unit 5, Lesson 4, pp. 444–458
		Student Interactive Digital Curriculum: Unit 5, Lesson 4, Forces
		Teacher Digital Management Center: Unit 5, Lesson 4, Forces
		Lab(s): Unit 5, Lesson 4 Quick Lab: First Law of Skateboarding; Unit 5, Lesson 4 Quick Lab: Parachutes and Air Resistance; Unit 5, Lesson 3 Quick Lab:
		Centripetal Force; Unit 5, Lesson 3 Quick Lab: Direction of Acceleration
		Virtual Lab(s): Unit 5, Lesson 4, Kinetic and Potential Energy
SC.7.N.1.1	Define a problem from the seventh grade	SE : Unit 3, Lesson 1, pp. 192–201; Unit 3, Lesson 4, pp. 228–237; Unit 4, Think Science, pp. 268–269; Unit 4, Lesson 3, pp. 270–281
	curriculum, use appropriate reference materials to support scientific understanding, plan and	TE: Unit 3, Lesson 1, pp. 256–269; Unit 3, Lesson 4, pp. 302–315; Unit 4, Think Science, pp. 360–361; Unit 4, Lesson 3, pp. 362–375
	carry out scientific investigation of various types,	Student Interactive Digital Curriculum: Unit 3, Lesson 1, Waves; Unit 3, Lesson 4, Interactions of Light; Unit 4 Think Science: Planning an Investigation; Unit
	such as systematic observations or experiments,	4, Lesson Thermal Energy and Heat
	identify variables, collect and organize data,	Teacher Digital Management Center: Unit 3, Lesson 1, Waves; Unit 3, Lesson 4, Interactions of Light; Unit 4 Think Science: Planning an Investigation; Unit 4,
	interpret data in charts, tables, and graphics,	Lesson Thermal Energy and Heat
	analyze information, make predictions, and	
	defend conclusions.	Many labs address this banchmark, including the following:
		Lab(s): Unit 3, Lesson 4 Quick Lab: Why Is the Sky Blue?; Unit 3 Field Lab: Images from Convex Lenses; Unit 3 STEM Lab: Building a Speaker; Unit 4 STEM Lab: Modeling Geothermal Power

SC.7.N.1.2	Differentiate replication (by others) from	SE: Unit 1, Lesson 3, pp. 24–37
	repetition (multiple trials).	TE: Unit 1, Lesson 3, pp. 42–56
		Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations
		Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations
SC.7.N.1.3	Distinguish between an experiment (which must	SE : Unit 1, Lesson 3, pp. 24–37
	involve the identification and control of variables) and other forms of scientific	TE : Unit 1, Lesson 3, pp. 42–56
	investigation and explain that not all scientific	Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations
	knowledge is derived from experimentation.	Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations
SC.7.N.1.4	Identify test variables (independent variables)	SE: Unit 1, Lesson 3, pp. 24–37
	and outcome variables (dependent variables) in an experiment.	TE: Unit 1, Lesson 3, pp. 42–56
		Student Interactive Digital Curriculum: Unit 1, Lesson 3, Scientific Investigations
		Teacher Digital Management Center: Unit 1, Lesson 3, Scientific Investigations
SC.7.N.1.5	Describe the methods used in the pursuit of a	SE: Unit 3, People in Science, pp. 212–213
	scientific explanation as seen in different fields of science such as biology, geology, and physics.	TE: Unit 3, People in Science, pp. 284–285
	science such as biology, geology, and physics.	Student Interactive Digital Curriculum: Unit 3 People in Science: James West
		Teacher Digital Management Center: Unit 3 People in Science: James West
		Lab(s): Unit 1 Exploration Lab: Measuring Speed; Unit 3, Lesson 1 Quick Lab: Seeing Vibrations
SC.7.N.1.6	Explain that empirical evidence is the cumulative	SE : Unit 1, Lesson 1, pp. 4–13
	body of observations of a natural phenomenon on which scientific explanations are based.	TE: Unit 1, Lesson 1, pp. 14–26
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What is Science?
		Teacher Digital Management Center: Unit 1, Lesson 1, What is Science?

SC.7.N.1.7	Explain that scientific knowledge is the result of a	SE: Unit 1, Lesson 2, pp. 14–23
	great deal of debate and confirmation within the	TE : Unit 1, Lesson 2, pp. 28–40
	science community.	
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge
SC.7.N.2.1	Identify an instance from the history of science in	SE: Unit 1, Lesson 1, pp. 4–13; Unit 1, Lesson 2, pp. 14–23
	which scientific knowledge has changed when	TE: Unit 1, Lesson 1, pp. 6, 7, 14–26; Unit 1, Lesson 2, pp. 28–40
	new evidence or new interpretations are	
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What Is Science?; Unit 1, Lesson 2, Scientific Knowledge
		Teacher Digital Management Center: Unit 1, Lesson 1, What Is Science?; Unit 1, Lesson 2, Scientific Knowledge
SC.7.N.3.1	Recognize and explain the difference between	SE: Unit 1, Lesson 2, pp. 14–23; Unit 1, Lesson 5, pp. 50–59
	theories and laws and give several examples of	TE: Unit 1, Lesson 2, pp. 28–40; Unit 1, Lesson 5, pp. 74–86
	scientific theories and the evidence that supports	
	them.	Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 5, Science and Society
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 5, Science and Society
SC.7.N.3.2	Identify the benefits and limitations of the use of	SE: Unit 1, Lesson 4, pp. 38–47
	scientific models.	TE : Unit 1, Lesson 4, pp. 58–70
		Student Interactive Digital Curriculum: Unit 1, Lesson 4, Representing Data
		Teacher Digital Management Center: Unit 1, Lesson 4, Representing Data
SC.7.P.10.1	Illustrate that the sun's energy arrives as	SE: Unit 3, Lesson 3, pp. 214–225
	radiation with a wide range of wavelengths,	TE: Unit 3, Lesson 3, pp. 286–299
	including infrared, visible, and ultraviolet, and	
		Student Interactive Digital Curriculum: Unit 3, Lesson 3, The Electromagnetic Spectrum
	many different colors.	Teacher Digital Management Center: Unit 3, Lesson 3, The Electromagnetic Spectrum
		Lab(s): Unit 3, Lesson 3 Quick Lab: White Light; Unit 3, Lesson 3 Quick Lab: Modeling Earth's Magnetic Field
		Virtual Lab(s): Unit 3, Lesson 3, Mixing Colors

CC 7 D 40 3	Observe and sometime that light and he well-stand	G5, Unit 2 January 4 are 220 227
SC.7.P.10.2		SE: Unit 3, Lesson 4, pp. 228–237
	refracted, and/or absorbed.	TE: Unit 3, Lesson 4, pp. 302–315
		Student Interactive Digital Curriculum: Unit 3, Lesson 4, Interactions of Light
		Teacher Digital Management Center: Unit 3, Lesson 4, Interactions of Light
		Lab(s): Unit 3 STEM Lab: Light Maze
		Virtual Lab(s): Unit 3, Lesson 3, Mixing Colors
SC.7.P.10.3	Recognize that light waves, sound waves, and	SE: Unit 3, Lesson 2, pp. 202–211; Unit 3, Lesson 4, pp. 228–237
	other waves move at different speeds in	TE: Unit 3, Lesson 2, pp. 270–283; Unit 3, Lesson 4, pp. 302–315
	different materials.	
		Student Interactive Digital Curriculum: Unit 3, Lesson 2, Properties of Waves; Unit 3, Lesson 4, Interactions of Light
		Teacher Digital Management Center: Unit 3, Lesson 2, Properties of Waves; Unit 3, Lesson 4, Interactions of Light
		Lab(s): Unit 3, Lesson 2 Quick Lab: Waves; Unit 3 Field Lab: Sound Idea; Unit 3 Exploration Lab: Wave Energy and Speed; Unit 3 STEM Lab: Echoes
SC.7.P.11.1	Recognize that adding heat to or removing heat	SE: Unit 4, Lesson 2, pp. 260–267; Unit 4, Lesson 3, pp. 270–281
30.7.1.11.1	from a system may result in a temperature	TE: Unit 4, Lesson 2, pp. 348–359; Unit 4, Lesson 3, pp. 362–375
	change and possibly a change of state.	TE. Offic 4, Lessoff 2, pp. 346–339, Offic 4, Lessoff 3, pp. 302–373
	change and possibly a change of state.	Student Interactive Digital Curriculum: Unit 4, Lesson 2, Temperature; Unit 4, Lesson 3, Thermal Energy and Heat
		Teacher Digital Management Center: Unit 4, Lesson 2, Temperature; Unit 4, Lesson 3, Thermal Energy and Heat
		reaction Digital Wallagement Center. Offic 4, Lesson 2, Temperature, Offic 4, Lesson 3, Thermal Energy and Treat
		Many labs address this benchmark, including the following:
		Lab(s): Unit 4, Lesson 2 Quick Lab: Temperature Change; Unit 4, Lesson 3 Quick Lab: Simple Heat Engine; Unit 4 Exploration Lab: Changes of State; Unit 4
		STEM Lab: Modeling Geothermal Power
		STEW Lab. Modeling Geotherman ower
		Virtual Lab(s): Unit 4, Lesson 3, Temperature and Thermal Energy
		The Court Law (3). Only 4, 1033011 3, 10111perature and Thermal Liner By

SC.7.P.11.2	In continue and decoule the two of supportion of	CF. Unit 4 Leaven 1 pp. 250-250
SC.7.P.11.2	Investigate and describe the transformation of	SE: Unit 4, Lesson 1, pp. 250–259
	energy from one form to another.	TE: Unit 4, Lesson 1, pp. 334–347
		Student Interactive Digital Curriculum: Unit 4, Lesson 1, Energy Conversion and Conservation
		Teacher Digital Management Center: Unit 4, Lesson 1, Energy Conversion and Conservation
		Tradition Digital Management Content of the 1, Leaston 2, Energy Contents on and Conservation
		Lab(s): Unit 4, Lesson 1 Quick Lab: Electrical, Light, and Heat Energy
		Virtual Lab(s): Unit 4, Lesson 1, Insulation Competition
SC.7.P.11.3	Cite evidence to explain that energy cannot be	SE: Unit 4, Lesson 1, pp. 250–259
	created nor destroyed, only changed from one form to another.	TE: Unit 4, Lesson 1, pp. 334–347
		Student Interactive Digital Curriculum: Unit 4, Lesson 1, Energy Conversion and Conservation
		Teacher Digital Management Center: Unit 4, Lesson 1, Energy Conversion and Conservation
		Lab(s): Unit 4, Lesson 1 Quick Lab: Conservation of Energy
		Virtual Lab(s): Unit 4, Lesson 1, Insulation Competition
SC.7.P.11.4	Observe and describe that heat flows in	SE : Unit 4, Lesson 2, pp. 260–267; Unit 4, Lesson 3, pp. 270–281
	predictable ways, moving from warmer objects	TE: Unit 4, Lesson 2, pp. 348–359; Unit 4, Lesson 3, pp. 362–375
	to cooler ones until they reach the same	
	temperature.	Student Interactive Digital Curriculum: Unit 4, Lesson 2, Temperature; Unit 4, Lesson 3, Thermal Energy and Heat
		Teacher Digital Management Center: Unit 4, Lesson 2, Temperature; Unit 4, Lesson 3, Thermal Energy and Heat
		Lab(s): Unit 4, Lesson 2 Quick Lab: Temperature Change; Unit 4, Lesson 2 Quick Lab: Heat Transfer by Conduction; Unit 4, Lesson 3 Quick Lab: Simple Heat
		Engine; Unit 4 STEM Lab: Modeling Geothermal Power
		Virtual Lab(s): Unit 4, Lesson 3, Temperature and Thermal Energy
		Thread Lawley, one 4, Lesson 3, reinperature and merma Energy

SC.8.N.1.1	Define a problem from the eighth grade	SE: Unit 2, Lesson 2, pp. 100–113; Unit 2, Lesson 3, pp. 116–127; Unit 2, Lesson 4, pp. 132–141
	curriculum using appropriate reference materials	TE: Unit 2, Lesson 2, pp. 144–159; Unit 2, Lesson 3, pp. 162–175; Unit 2, Lesson 4, pp. 180–193
	to support scientific understanding, plan and	
	carry out scientific investigations of various	Student Interactive Digital Curriculum: Unit 2, Lesson 2, Properties of Matter; Unit 2, Lesson 3, Physical and Chemical Changes; Unit 2, Lesson 4, States of
	types, such as systematic observations or	Matter
	experiments, identify variables, collect and	Teacher Digital Management Center: Unit 2, Lesson 2, Properties of Matter; Unit 2, Lesson 3, Physical and Chemical Changes; Unit 2, Lesson 4, States of
	, , ,	Matter
	and graphics, analyze information, make	
		Lab(s): Unit 2, Lesson 2 Quick Lab: Growing Crystals; Unit 2, Lesson 3 Quick Lab: Physical or Chemical Change?; Unit 2, Lesson 4 Quick Lab: Changing
		Volumes
SC.8.N.1.2	Design and conduct a study using repeated trials	SE: Unit 1, Lesson 2, pp. 14–23; Unit 1, Lesson 3, pp. 24–37
	and replication.	TE: Unit 1, Lesson 2, pp. 28–40; Unit 1, Lesson 3, pp. 42–56
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 3, Scientific Investigations
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge; Unit 1, Lesson 3, Scientific Investigations
SC.8.N.1.3	Use phrases such as "results support" or "fail to	SE: Unit 1, Lesson 1, pp. 4–13; Unit 1, Lesson 3, pp. 24–37; Unit 1, Lesson 4, pp. 38–47
	support" in science, understanding that science	TE: Unit 1, Lesson 1, pp. 14–26; Unit 1, Lesson 3, pp. 42–56; Unit 1, Lesson 4, pp. 58–70
	does not offer conclusive 'proof' of a knowledge	
	claim.	Student Interactive Digital Curriculum: Unit 1, Lesson 1, What Is Science?; Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data
		Teacher Digital Management Center: Unit 1, Lesson 1, What Is Science?; Unit 1, Lesson 3, Scientific Investigations; Unit 1, Lesson 4, Representing Data
SC.8.N.1.4	Explain how hypotheses are valuable if they lead	SE: Unit 1, Lesson 1, pp. 12–13; Unit 1, Lesson 2, pp. 14–23
	to further investigations, even if they turn out	TE: Unit 1, Lesson 1, p. 19; Unit 1, Lesson 2, pp. 28–40
	not to be supported by the data.	
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What Is Science?; Unit 1, Lesson 2, Scientific Knowledge
		Teacher Digital Management Center: Unit 1, Lesson 1, What Is Science?; Unit 1, Lesson 2, Scientific Knowledge

SC.8.N.1.5	Analyze the methods used to develop a scientific	SE : Unit 2, Lesson 7, pp. 170–181
	explanation as seen in different fields of science.	TE: Unit 2, Lesson 7, pp. 226–239
		Student Interactive Digital Curriculum: Unit 2, Lesson 7, The Periodic Table
		Teacher Digital Management Center: Unit 2, Lesson 7, The Periodic Table
		Lab(s): Unit 2, Lesson 5 Quick Lab: The pH Scale; Unit 2, Lesson 7 Quick Lab: Rearranging the Periodic Table; Unit 2 Exploration Lab: Identifying Unknown Samples
SC.8.N.1.6	Understand that scientific investigations involve	SE : Unit 2, Think Science, pp. 98–99; Unit 2, Lesson 3, pp. 116–127
	the collection of relevant empirical evidence, the use of logical reasoning, and the application of	TE: Unit 2, Think Science, pp. 142–143; Unit 2, Lesson 3, pp. 162–175
	imagination in devising hypotheses, predictions,	Student Interactive Digital Curriculum: Unit 2 Think Science: Determining Relevant Information; Unit 2, Lesson 3, Physical and Chemical Changes
		Teacher Digital Management Center: Unit 2 Think Science: Determining Relevant Information; Unit 2, Lesson 3, Physical and Chemical Changes
	collected evidence.	
		Lab(s): Unit 2, Lesson 2 Quick Lab: Will It Sink or Float?; Unit 2, Lesson 3 Quick Lab: Physical or Chemical Change?
SC.8.N.2.1	Distinguish between scientific and	SE: Unit 2 Think Science, pp. 98–99
		TE: Unit 2 Think Science, pp. 142–143
		Student Interactive Digital Curriculum: Unit 2 Think Science: Evaluating Scientific Evidence
		Teacher Digital Management Center: Unit 2 Think Science: Evaluating Scientific Evidence
SC.8.N.2.2	Discuss what characterizes science and its	SE : Unit 1, Lesson 1, pp. 4–13
	methods.	TE: Unit 1, Lesson 1, pp. 14–26
		Student Interactive Digital Curriculum: Unit 1, Lesson 1, What Is Science?
		Teacher Digital Management Center: Unit 1, Lesson 1, What Is Science?

SC.8.N.3.1	Select models useful in relating the results of	SE: Unit 2, Lesson 4, pp. 132–141
	their own investigations.	TE: Unit 2, Lesson 4, pp. 180–194
		Student Interactive Digital Curriculum: Unit 2, Lesson 4, States of Matter
		Teacher Digital Management Center: Unit 2, Lesson 4, States of Matter
SC.8.N.3.2	Explain why theories may be modified but are	SE : Unit 1, Lesson 2, pp. 14–23
	rarely discarded.	TE: Unit 1, Lesson 2, pp. 28–40
		Student Interactive Digital Curriculum: Unit 1, Lesson 2, Scientific Knowledge
		Teacher Digital Management Center: Unit 1, Lesson 2, Scientific Knowledge
SC.8.N.4.1	Explain that science is one of the processes that	SE: Unit 2, People in Science, pp. 114–115
	can be used to inform decision making at the community, state, national, and international	TE: Unit 2, People in Science, pp. 160–161
	levels.	Student Interactive Digital Curriculum: Unit 2 People in Science: Shirley Ann Jackson
		Teacher Digital Management Center: Unit 2 People in Science: Shirley Ann Jackson
SC.8.N.4.2	Explain how political, social, and economic	SE: Unit 1, Lesson 5, pp. 50–59
	concerns can affect science, and vice versa.	TE: Unit 1, Lesson 5, pp. 74–86
		Student Interactive Digital Curriculum: Unit 1, Lesson 5, Science and Society
		Teacher Digital Management Center: Unit 1, Lesson 5, Science and Society
SC.8.P.8.1	Explore the scientific theory of atoms (also	SE: Unit 2, Lesson 4, pp. 132–141
	known as atomic theory) by using models to explain the motion of particles in solids, liquids,	TE: Unit 2, Lesson 4, pp. 180–193
	and gases.	Student Interactive Digital Curriculum: Unit 2, Lesson 4, States of Matter
		Teacher Digital Management Center: Unit 2, Lesson 4, States of Matter
		Many labs address this benchmark, including the following:
		Lab(s): Unit 2, Lesson 4 Quick Lab: Changing Volumes; Unit 2, Lesson 4 Quick Lab: Bottle of Vapor

SC.8.P.8.2	recognizing that weight is the amount of gravitational pull on an object and is distinct from, though proportional to, mass.	SE: Unit 2, Lesson 1, pp. 84–97 TE: Unit 2, Lesson 1, pp. 126–141 Student Interactive Digital Curriculum: Unit 2, Lesson 1, Introduction to Matter Teacher Digital Management Center: Unit 2, Lesson 1, Introduction to Matter Lab(s): Unit 2, Lesson 1 Quick Lab: Mass and Weight; Unit 2, Lesson 1 Quick Lab: Finding Volume by Displacement; Unit 2 Quick Lab: How Much Mass?
SC.8.P.8.3	materials through measurement of their masses and volumes.	SE: Unit 2, Lesson 1, pp. 84–97 TE: Unit 2, Lesson 1, pp. 126–141 Student Interactive Digital Curriculum: Unit 2, Lesson 1, Introduction to Matter Teacher Digital Management Center: Unit 2, Lesson 1, Introduction to Matter Lab(s): Unit 2, Lesson 1 Quick Lab, Mass and Weight; Unit 2, Lesson 1 Quick Lab, Finding Volume by Displacement; Unit 2 Exploration Lab, Comparing Buouyancy
SC.8.P.8.4	characteristic physical properties that can be demonstrated or measured; for example, density, thermal or electrical conductivity, solubility, magnetic properties, melting and boiling points, and know that these properties	SE: Unit 2, Lesson 2, pp. 100–113; Unit 2, People in Science, pp. 114–115 TE: Unit 2, Lesson 2, pp. 144–159; Unit 2, People in Science, pp. 160–161 Student Interactive Digital Curriculum: Unit 2, Lesson 2, Properties of Matter; Unit 2 People in Science: Shirley Ann Jackson Teacher Digital Management Center: Unit 2, Lesson 2, Properties of Matter; Unit 2 People in Science: Shirley Ann Jackson Lab(s): Unit 2, Lesson 2 Quick Lab: Will It Sink or Float?; Unit 2, Lesson 2 Quick Lab: Growing Crystals; Unit 2, Lesson 2 Quick Lab: Natural vs. Synthetic Fibers
SC.8.P.8.5	elements and that their atoms combine in a multitude of ways to produce compounds that make up all of the living and nonliving things that we encounter.	SE: Unit 2, Lesson 5, pp. 142–155 TE: Unit 2, Lesson 5, pp. 195–209 Student Interactive Digital Curriculum: Unit 2, Lesson 5, Pure Substances and Mixtures Teacher Digital Management Center: Unit 2, Lesson 5, Pure Substances and Mixtures Lab(s): Unit 2, Lesson 5 Quick Lab: Comparing Two Elements

SC.8.P.8.6	Recognize that elements are grouped in the	SE : Unit 2, Lesson 7, pp. 170–181
	periodic table according to similarities of their	TE: Unit 2, Lesson 7, pp. 226–239
	properties.	
		Student Interactive Digital Curriculum: Unit 2, Lesson 7, The Periodic Table
		Teacher Digital Management Center: Unit 2, Lesson 7, The Periodic Table
		Lab(s): Unit 2, Lesson 7 Quick Lab: Predicting Properties; Unit 2, Lesson 7 Quick Lab: Rearranging the Periodic Table; Unit 2, Lesson 7 Quick Lab: Recognizing Patterns
SC.8.P.8.7	Explore the scientific theory of atoms (also	SE : Unit 2, Lesson 6, pp. 156–167
	known as atomic theory) by recognizing that atoms are the smallest unit of an element and	TE: Unit 2, Lesson 6, pp. 210–223
	are composed of sub-atomic particles (electrons	Student Interactive Digital Curriculum: Unit 2, Lesson 6, The Atom
	surrounding a nucleus containing protons and neutrons).	Teacher Digital Management Center: Unit 2, Lesson 6, The Atom
		Lab(s): Unit 2, Lesson 6 Quick Lab: A Model Atom; Unit 2, Lesson 6 Quick Lab: Atoms and Subatomic Particles; Unit 2 STEM Lab: Build a Bohr Model
SC.8.P.8.8	Identify basic examples of and compare and	SE : Unit 2, Lesson 5, pp. 142–155
	classify the properties of compounds, including acids, bases, and salts.	TE: Unit 2, Lesson 5, pp. 195–209
		Student Interactive Digital Curriculum: Unit 2, Lesson 5, Pure Substances and Mixtures
		Teacher Digital Management Center: Unit 2, Lesson 5, Pure Substances and Mixtures
		Lab(s): Unit 2, Lesson 5 Quick Lab: Comparing Two Elements; Unit 2, Lesson 5 Quick Lab: The pH Scale
SC.8.P.8.9	Distinguish among mixtures (including solutions)	SE: Unit 2, Lesson 5, pp. 142–155; Unit 2, Focus on Florida, pp. 168–169
	and pure substances.	TE: Unit 2, Lesson 5, pp. 195–209; Unit 2, Focus on Florida, pp. 224–225
		Student Interactive Digital Curriculum: Unit 2, Lesson 5, Pure Substances and Mixtures; Unit 2 Focus on Florida: Mixtures in Florida
		Teacher Digital Management Center: Unit 2, Lesson 5, Pure Substances and Mixtures; Unit 2 Focus on Florida: Mixtures in Florida

Explore the Law of Conservation of Mass by	SE: Unit 2, Lesson 3, pp. 116–127
•	TE: Unit 2, Lesson 3, pp. 162–175
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and chemical changes.	Student Interactive Digital Curriculum: Unit 2, Lesson 3, Physical and Chemical Changes
	Teacher Digital Management Center: Unit 2, Lesson 3, Physical and Chemical Changes
	Lab(s): Unit 2, Lesson 3 Quick Lab: Physical or Chemical Change?; Unit 2, Lesson 3 Quick Lab: Properties of Combined Substances; Unit 2, Lesson 3 Quick Lab: What's In a Change?
	Virtual Lab: Unit 2, Lesson 3, Change of Pace
Differentiate between physical changes and	SE : Unit 2, Lesson 3, pp. 116–127
chemical changes.	TE: Unit 2, Lesson 3, pp. 162–175
	Student Interactive Digital Curriculum: Unit 2, Lesson 3, Physical and Chemical Changes
	Teacher Digital Management Center: Unit 2, Lesson 3, Physical and Chemical Changes
	Lab(s): Unit 2, Lesson 3 Quick Lab: Physical or Chemical Change?; Unit 2, Lesson 3 Quick Lab: Properties of Combined Substances
	Virtual Lab(s): Unit 2, Lesson 3, Change of Pace
Investigate and describe how temperature	SE : Unit 2, Lesson 3, pp. 116–127
influences chemical changes.	TE: Unit 2, Lesson 3, pp. 162–175
	Student Interactive Digital Curriculum: Unit 2, Lesson 3, Physical and Chemical Changes
	Teacher Digital Management Center: Unit 2, Lesson 3, Physical and Chemical Changes
	Lab(s): Unit 2, Lesson 3 Quick Lab: Physical or Chemical Change?
	This standard is covered throughout the program, especially with Claims, Evidence, and Reasoning questions. The following are some of the many
of science and technical texts.	examples:
	SE: 12, 104, 128–131, 263
	TE: 24, 26, 154, 176–179, 357
	Differentiate between physical changes and chemical changes. Investigate and describe how temperature influences chemical changes. Cite specific textual evidence to support analysis

LAFS.68.RST.1.2	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.	This standard is covered throughout the program. The following are some of the many examples: TE: 37, 374
LAFS.68.RST.1.3	Follow precisely a multistep procedure when	This standard is covered throughout the program. The following are some of the many examples:
	carrying out experiments, taking measurements, or performing technical tasks.	SE : 306–307 TE : 61, 182, 412
LAFS.68.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.	This standard is covered throughout the program. The following are some of the many examples: SE: 85, 325 TE: 134, 342, 356, 440
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 : 356–357, 362–363, 473
LAFS.68.RST.2.6	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	Within the Lab Manual are Quick Labs, S.T.E.M. Labs, and Exploration Labs students can use to analyze the author's purpose.
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 practice is covered throughout the program. The following are some of the many examples: SE: 40–47, 68–89, 285 TE: 67–70, 100, 378
LAFS.68.RST.3.8	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	This practice is covered throughout the program. The following are some of the many examples: SE: 20–21 TE: 39

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.	Lab: Unit 2 Exploration Lab: Identifying Unknown Samples (see the Modification for Independent Inquiry)
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 practice is covered throughout the program. The following are some of the many examples: SE: 12, 104, 128–131, 263 TE: 24, 26, 154, 176–179, 357
LAFS.68.WHST.1.1	Write arguments focused on discipline-specific content. a. Introduce claim(s) about a topic or issue, acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically. b. Support claim(s) with logical reasoning and relevant, accurate data and evidence that demonstrate an understanding of the topic or text, using credible sources. c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence. d. Establish and maintain a formal style. e. Provide a concluding statement or section that follows from and supports the argument presented.	This practice is covered throughout the program. See, for example: SE: 319 TE: 267

LAFS.68.WHST.1.2	Write informative/explanatory texts, including	This standard is covered throughout the program. For example, see:
	the narration of historical events, scientific	SE: 206
	procedures/ experiments, or technical processes.	TE: 280
	a. Introduce a topic clearly, previewing what is to	
	follow; organize ideas, concepts, and information	
	into broader categories as appropriate to	
	achieving purpose; include formatting (e.g.,	
	headings), graphics (e.g., charts, tables), and	
	multimedia when useful to aiding	
	comprehension.	
	b. Develop the topic with relevant, well-chosen	
	facts, definitions, concrete details, quotations, or	
	other information and examples.	
	c. Use appropriate and varied transitions to	
	create cohesion and clarify the relationships	
	among ideas and concepts.	
	d. Use precise language and domain-specific	
	vocabulary to inform about or explain the topic.	
	e. Establish and maintain a formal style and	
	objective tone.	
	f. Provide a concluding statement or section that	
	follows from and supports the information or	
	explanation presented.	
LAFS.68.WHST.2.4	Produce clear and coherent writing in which the	This standard is covered throughout the program. The following are some of the many examples:
	_	SE: 120, 139
	appropriate to task, purpose, and audience.	

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.	TE: 72
LAFS.68.WHST.2.6		This practice is covered throughout the program. The following are some of the many examples: SE: 57, 139 TE: 55, 85, 191
LAFS.68.WHST.3.7	1	This standard is covered throughout the program. The following are some of the many examples: SE: 34, 139, 279 TE: 55, 191, 374
LAFS.68.WHST.3.8		This practice is covered throughout the program. The following are some of the many examples: SE: 23, 35, 139 TE: 55, 191
LAFS.68.WHST.3.9	1	This standard is covered throughout the program. The following are some of the many examples: SE: 266 TE: 359
LAFS.68.WHST.4.10	for reflection and revision) and shorter time	This standard is covered throughout the program. The following are some of the many examples: SE: 119, 279 TE: 171, 374

LAFS.8.SL.1.1	Engage effectively in a range of collaborative	This practice is covered throughout the program. See, for example:
	discussions (one-on-one, in groups, and teacher-	SE : 94–95
	led) with diverse partners on grade 8 topics,	TE : 139, 258
	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.	
LAFS.8.SL.1.2		Within the Lab Manual are Quick Labs, S.T.E.M. Labs, and Exploration Labs students can use to analyze the purpose.
	diverse media and formats (e.g., visually,	
	quantitatively, orally) and evaluate the motives	
	(e.g., social, commercial, political) behind its	
	presentation.	

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. Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.	This practice is covered throughout the program. This practice is covered throughout the program. See, for example: SE: 139, 275 This practice is covered throughout the program. This practice is covered throughout the program. See, for example: TE: 224
LAFS.8.SL.2.5	Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.	This practice is covered throughout the program. This practice is covered throughout the program. See, for example: TE: 160
MAFS.6.SP.2.5	Summarize numerical data sets in relation to their context, such as by: a. Reporting the number of observations. b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. c. Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. d. Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	This practice is covered throughout the program, especially with the S.T.E.M. features. The following are some of the many examples: SE: 72–75, 98–99, 226–227 TE: 102–105, 142–143, 300–301

MAFS.7.SP.2.4	Use measures of center and measures of	SE : 226–227
	variability for numerical data from random	TE: 300–301
	samples to draw informal comparative	
	inferences about two populations. For example,	
	decide whether the words in a chapter of a	
	seventh-grade science book are generally longer	
	than the words in a chapter of a fourth-grade	
	science book.	
MAFS.7.SP.3.5	Understand that the probability of a chance	SE : 4–13
	event is a number between 0 and 1 that	TE: 14–26
	expresses the likelihood of the event occurring.	
	Larger numbers indicate greater likelihood. A	
	probability near 0 indicates an unlikely event, a	
	probability around 1/2 indicates an event that is	
	neither unlikely nor likely, and a probability near	
	1 indicates a likely event.	
MAFS.8.F.2.5	Describe qualitatively the functional relationship	SE : 38–47, 308–321
	between two quantities by analyzing a graph	TE : 58–70, 414–428
	(e.g., where the function is increasing or	
	decreasing, linear or nonlinear). Sketch a graph	
	that exhibits the qualitative features of a	
	function that has been described verbally.	
MAFS.8.G.3.9	Know the formulas for the volumes of cones,	SE : 90–91
	cylinders, and spheres and use them to solve real-	TE: 137
	world and mathematical problems.	
ELD.K12.ELL.SC.1	English language learners communicate	This standard is covered throughout the program. The following are some of the many examples:
LLD.N12.LLL.3C.1	I	TE: 60, 185, 413
	academic success in the content area of Science.	TE. UU, 10J, 415
	academic success in the content area of science.	

ELD.K12.ELL.SI.1	English language learners communicate for social	This standard is covered throughout the program. The following are some of the many examples:
	and instructional purposes within the school	TE: 19, 179, 261, 401
	setting.	