

Carolina™ Curriculum Correlation to



Florida Sunshine State Standards Science Grades 6-8

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Carolina™ Curriculum Correlation to Florida Sunshine State Standards – Science Grades 6-8

This document is an alignment of The STC PROGRAM™ and GEMS Kits with Florida Sunshine State Standards for Science, grades 6-8. Although each unit was developed for use at a specific grade level, there is some flexibility in grade placement. Below is a chart of the STC PROGRAM™.



The STC PROGRAM™ is made up of 2 research-based, inquiry-centered core curriculums:

- Science and Technology for Children® (STC®) for grades K–6; and
- Science and Technology Concepts for Middle Schools™ (STC/MS™) for grades 6–8

	Life Science	Earth Science	Physical Science and Technology	
K–2	Organisms	Weather	Solids and Liquids	Comparing and Measuring
1–3	The Life Cycle of Butterflies	Soils	Changes	Balancing and Weighing
2–4	Plant Growth and Development	Rocks and Minerals	Chemical Tests	Sound
3–5	Animal Studies	Land and Water	Electric Circuits	Motion and Design
4–6	Microworlds	Ecosystems	Food Chemistry	Floating and Sinking
5–6	Experiments with Plants	Measuring Time	Magnets and Motors	The Technology of Paper
6–8	Human Body Systems	Catastrophic Events	Properties of Matter	Energy, Machines, and Motion
	Organisms–From Macro to Micro	Earth in Space	Light	Electrical Energy and Circuit Design



Great Explorations in Math and Science® (GEMS Kits®) are standards-based PreK-8 math and science supplemental kits. The kits have been tested for specific grade levels but can also be used at lower or higher levels.

LEGEND - To save paper, the location information in this document has been abbreviated as follows:

- TG = Teacher’s Guide, SG=Student Guide
- L01, L02, etc. = Lesson 1, Lesson 2, etc. or Act01, Act02, etc. = Activity 1, Activity 2, etc.
- STC BOOK™ (a science reading book included in some of the grades 3–5 STC® unit kits)
- Exts = Extensions (found at the end of most lessons in the Teacher’s Guide)

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Grade 6

STANDARD / BODY OF KNOWLEDGE	FL.SC.6.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.6.N.1.	<p>The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method." C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and processes, but also in its questions and explanations.</p>
BENCHMARK / DESCRIPTOR	SC.6.N.1.1.	<p>Define a problem from the sixth grade 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.</p> <ul style="list-style-type: none"> • Aquatic Habitats • TG: Act01-05 (pp13-70) • TG: Exts (pp70-78) • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble Festival • TG: Act01-12 (pp54-124) • Bubble-ology • TG: Act01-06 (pp5-44) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • TG: Exts (pp63-64) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129)

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		<ul style="list-style-type: none"> • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11) • SG: L03-05 (pp22-73) • SG: L09-11 (pp122-159) • SG: L13-14 (pp174-215) • SG: L18-20 (pp290-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L03-05 (pp21-72) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-292) • TG: L20 (pp293-308) • TG: L22 (pp311-326) • Ecosystems • TG: L01-17 (pp3-171) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Experiments with Plants • TG: L01-16 (pp9-128) • Fingerprinting • TG: Ses01-03 (pp7-25) • Floating and Sinking • TG: L01-17 (pp3-136) • Food Chemistry • TG: L01-17 (pp3-156) • GEMS Electric Circuits • TG: Ses01-10 (pp13-168) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L02-23 (pp8-195) • TG: L01-23 (pp3-276) • Investigating Artifacts • TG: Ses01-06 (pp7-63) • TG: Exts (pp68-69) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131)
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		<ul style="list-style-type: none"> • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Magnets and Motors • TG: L10.Exts (p69) • TG: L14 (pp89-94) • TG: L16-17 (pp99-108) • Measuring Time • TG: L02-03 (pp21-42) • TG: L05 (pp49-58) • TG: L07-12 (pp67-122) • TG: L15-16 (pp139-148) • Microworlds • TG: L01-17 (pp3-88) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9- -46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88)
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		<ul style="list-style-type: none"> • Stories in Stone • TG: Ses01-08 (pp15-113) • Schoolyard Ecology • TG: Act01-05 (pp7-59) • Terrarium Habitats • TG: Act01-05 (pp5-48) • The Technology of Paper • TG: L01-18 (pp19-218) • STC Book: Ecosystems: (pp43-44) • STC Book: Experiments with Plants: (pp57-61) • STC Book: Magnets and Motors: (pp14-16), (pp33-38) • STC Book: The Technology of Paper: (pp16-19)
BENCHMARK / DESCRIPTOR	SC.6.N.1.2.	<p>Explain why scientific investigations should be replicable.</p> <ul style="list-style-type: none"> • Experiments with Plants • TG: L14.Exts (pp109-110) • Floating and Sinking • TG: L05 (pp39-48) • Light • SG: L26 (pp294-297) • TG: L26 (pp349-367)
BENCHMARK / DESCRIPTOR	SC.6.N.1.3.	<p>Explain the difference between an experiment and other types of scientific investigation, and explain the relative benefits and limitations of each.</p> <ul style="list-style-type: none"> • Aquatic Habitats • TG: Act01-05 (pp13-70) • TG: Exts (pp70-78) • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble Festival • TG: Act01-12 (pp54-124) • Bubble-ology • TG: Act01-06 (pp5-44) • Color Analyzers • TG: Act01-05 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • TG: Exts (pp63-64) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282)

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		<ul style="list-style-type: none"> • TG: L01 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11) • SG: L04-06 (pp42-87) • SG: L09 (pp122-127) • SG: L11 (pp146-159) • SG: L13-14 (pp174-215) • SG: L18 (pp290-311) • SG: L20 (pp324-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L04-06 (pp37-82) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-308) • TG: L22 (pp311-326) • Ecosystems • TG: L01-17 (pp3-171) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Experiments with Plants • TG: L01-16 (pp9-128) • Fingerprinting • TG: Ses01-03 (pp7-25) • Floating and Sinking • TG: L01-17 (pp3-136) • Food Chemistry • TG: L02-14 (pp11-130) • TG: L16 (pp149-154) • GEMS Electric Circuits • TG: Ses01-10 (pp13-168) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L02-08 (pp8-65) • SG: L10-23 (pp76-195) • TG: L01.Exts (p7)
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		<ul style="list-style-type: none"> • TG: L02-08 (pp11-102) • TG: L09.Exts (p107) • TG: L10-23 (pp113-276) • Investigating Artifacts • TG: Ses01-06 (pp7-63) • TG: Exts (pp68-69) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Magnets and Motors • TG: L02-17 (pp11-108) • Measuring Time • TG: L02-03 (pp21-42) • TG: L06-16 (pp59-148) • Microworlds • TG: L01-17 (pp3-88) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7- -24) • TG: Exts (p25)
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		<ul style="list-style-type: none"> • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113) • Schoolyard Ecology • TG: Act01-05 (pp7-59) • Terrarium Habitats • TG: Act01-05 (pp5-48) • The Technology of Paper • TG: L01-18 (pp19-218) • STC Book: Ecosystems: (pp43-44) • STC Book: Experiments with Plants: (pp14-17), (pp36-40), (pp54-56) • STC Book: Floating and Sinking: (pp60-61) • STC Book: Magnets and Motors: (pp14-16), (pp33-38) • STC Book: Microworlds: (pp23-25) • STC Book: The Technology of Paper: (pp16-19)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.6.N.1.4.</p>	<p>Discuss, compare, and negotiate methods used, results obtained, and explanations among groups of students conducting the same investigation.</p> <ul style="list-style-type: none"> • Aquatic Habitats • TG: Act01-05 (pp13-70) • TG: Exts (pp70-78) • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble Festival • TG: Act01-12 (pp54-124) • Bubble-ology • TG: Act01-06 (pp5-44) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L03 (pp26-41) • SG: L06 (pp68-79)

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		<ul style="list-style-type: none"> • SG: L08 (pp96-101) • SG: L12-13 (pp134-163) • SG: L15 (pp170-189) • SG: L17 (pp194-197) • SG: L25 (pp274-282) • TG: L01.Exts (pp10-11) • TG: L03 (pp27-44) • TG: L06 (pp69-82) • TG: L08 (pp103-126) • TG: L12-13 (pp163-186) • TG: L15 (pp197-218) • TG: L17 (pp233-256) • TG: L25 (pp347-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L03 (pp22-41) • SG: L07-09 (pp88-127) • SG: L14 (pp200-215) • SG: L16 (pp244-265) • SG: L22 (pp340-343) • TG: L03 (pp21-36) • TG: L07-09 (pp83-146) • TG: L14 (pp209-220) • TG: L16 (pp245-268) • TG: L22 (pp311-326) • Ecosystems • TG: L13-14 (pp125-144) • Electrical Energy and Circuit Design • SG: L08 (pp84-93) • SG: L11 (pp118-121) • TG: L08 (pp111-122) • TG: L11 (pp157-168) • Energy, Machines, and Motion • SG: L07 (pp62-71) • SG: L10 (pp92-97) • SG: L13 (pp120-129) • SG: L15 (pp140-147) • TG: L04 (pp37-46) • TG: L07 (pp75-84) • TG: L08.Exts (pp92-93) • TG: L10 (pp107-130) • TG: L13 (pp157-166)
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		<ul style="list-style-type: none"> • TG: L15-16 (pp177-202) • Experiments with Plants • TG: L09-10 (pp75-84) • TG: L13 (pp101-104) • TG: L15 (pp115-122) • Fingerprinting • TG: Ses01-03 (pp7-25) • Floating and Sinking • TG: L03 (pp21-30) • TG: L09-14 (pp69-118) • TG: L16 (pp129-134) • Food Chemistry • TG: L03 (pp23-38) • TG: L05-06 (pp49-68) • TG: L08-09 (pp79-94) • TG: L11-12 (pp101-116) • TG: L14-15 (pp125-148) • GEMS Electric Circuits • TG: Ses01-10 (pp13-168) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L21 (pp174-181) • TG: L09 (pp103-112) • TG: L21 (pp245-252) • Investigating Artifacts • TG: Ses01-06 (pp7-63) • TG: Exts (pp68-69) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L12-13 (pp132-141) • SG: L20 (pp224-227) • SG: L25 (pp284-293) • TG: L12-13 (pp137-168) • TG: L25 (pp335-348) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36)
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		<ul style="list-style-type: none"> • Magnets and Motors • TG: L10-11 (pp67-76) • TG: L17 (pp103-108) • Measuring Time • TG: L09 (pp87-94) • TG: L11 (pp109-114) • TG: L16 (pp145-148) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L03-04 (pp24-37) • SG: L08-09 (pp74-83) • SG: L13-14 (pp112-121) • SG: L17 (pp140-149) • SG: L19 (pp162-167) • SG: L23-24 (pp208-223) • SG: L26 (pp230-235) • TG: L03-04 (pp27- -48) • TG: L08 (pp91-100) • TG: L09 (pp101-112) • TG: L13-14 (pp143-160) • TG: L17 (pp179-192) • TG: L19 (pp209-226) • TG: L23-24 (pp275-302) • TG: L26 (pp313-332) • River Cutters • TG: Ses01-07 (pp21-72) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113) • Schoolyard Ecology • TG: Act01-05 (pp7-59) • Terrarium Habitats • TG: Act01-05 (pp5-48) • The Technology of Paper • TG: L03 (pp49-60) • TG: L05 (pp75-90)
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		<ul style="list-style-type: none"> • TG: L07 (pp107-116) • TG: L09-13 (pp127-170) • TG: L18 (pp215-218) • STC Book: Experiments with Plants: (pp57-61)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.6.N.1.5.</p>	<p>Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.</p> <ul style="list-style-type: none"> • Bubble-ology • TG: Act06 (pp41-44) • Crime Lab Chemistry • TG: Act03 (pp47-62) • TG: Exts (pp63-64) • Catastrophic Events • SG: L18 (pp200-209) • TG: L18 (pp257-264) • Dry Ice Investigations • TG: Act01-02 (pp19-81) • Electrical Energy and Circuit Design • SG: L01-04 (pp2-45) • SG: L06-07 (pp58-83) • SG: L10 (pp104-117) • SG: L15 (pp156-167) • SG: L17 (pp174-185) • SG: L23-24 (pp232-251) • TG: L01-04 (pp3-60) • TG: L06-07 (pp77-110) • TG: L08.Exts (p119) • TG: L10 (pp143-156) • TG: L15 (pp213-226) • TG: L17 (pp240-248) • TG: L23-24 (pp305-326) • Energy, Machines, and Motion • SG: L07 (pp62-71) • TG: L07 (pp75-84) • TG: L20.Exts (p238) • Experiments with Plants • TG: L01 (pp9-20) • TG: L11.Exts (p89) • TG: L12 (pp91-100) • TG: L16 (pp123-128) • Floating and Sinking • TG: L02 (pp13-20) • TG: L06.Exts (p52) • TG: L07.Exts (pp57-58) • Food Chemistry • TG: L08.Exts (p81) • GEMS Electric Circuits • TG: Ses11 (pp171-175) • Human Body Systems • SG: L03 (pp14-23)

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		<ul style="list-style-type: none"> • SG: L06 (pp40-49) • SG: L09 (pp68-75) • SG: L14 (pp120-129) • TG: L01.Exts (p7) • TG: L03 (pp19-28) • TG: L06 (pp57-68) • TG: L09 (pp103-112) • TG: L14 (pp159-172) • TG: L20.Exts (p239) • Light • TG: L09.Exts (p115) • TG: L12.Exts (p140) • Magnets and Motors • TG: L17 (pp103-108) • Measuring Time • TG: L06.Exts (p63) • TG: L11 (pp109-114) • Microworlds • TG: L06 (pp31-36) • TG: L10-12 (pp55-70) • TG: L14-16 (pp75-86) • Organisms-From Macro to Micro • SG: L15 (pp180-187) • TG: L15 (pp253-266) • Properties of Matter • SG: L13 (pp112-115) • SG: L15-16 (pp122-139) • SG: L23-24 (pp208-223) • TG: L13 (pp143-152) • TG: L15-16 (pp161-178) • TG: L23-24 (pp275-302) • River Cutters • TG: Ses07 (pp67-72) • The Technology of Paper • TG: L04 (pp61-74) • TG: L10 (pp137-148) • TG: L12 (pp157-164) • TG: L15 (pp185-196)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.6.N.2.	The Characteristics of Scientific Knowledge - A: Scientific knowledge is based on empirical evidence, and is appropriate for understanding the natural world, but it provides only a limited understanding of the supernatural, aesthetic, or other ways of knowing, such as art, philosophy, or religion. B: Scientific knowledge is durable and robust, but open to change. C: Because science is based on empirical evidence it strives for objectivity, but as it is a human endeavor the processes, methods, and knowledge of science include subjectivity, as well as creativity and discovery.
BENCHMARK / DESCRIPTOR	SC.6.N.2.1.	Distinguish science from other activities involving thought.

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		<ul style="list-style-type: none"> • Catastrophic Events • SG: L18 (pp200-209) • TG: L18 (pp257-264) • Dry Ice Investigations • TG: Act01 (pp19-47) • Electrical Energy and Circuit Design • SG: L02 (pp12-25) • TG: L02 (pp23-36) • Experiments with Plants • TG: L01-03 (pp9-38) • TG: L11.Exts (p89) • TG: L12 (pp91-100) • GEMS Electric Circuits • TG: Ses01 (pp13-33) • Human Body Systems • TG: L01.Exts (p7)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.6.N.2.2.</p>	<p>Explain that scientific knowledge is durable because it is open to change as new evidence or interpretations are encountered.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L18 (pp200-209) • TG: L18 (pp257-264) • Dry Ice Investigations • TG: Act01 (pp19-47) • Electrical Energy and Circuit Design • SG: L02 (pp12-25) • TG: L02 (pp23-36) • Experiments with Plants • TG: L11.Exts (p89) • Human Body Systems • TG: L01.Exts (p7) • Life Through Time • TG: Ses01-07 (pp13-269) • Light • TG: L19.Exts (p257) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Properties of Matter • TG: L01.Exts (p9)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.6.N.2.3.</p>	<p>Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goals.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L15 (pp170-189) • TG: L15 (pp197-218) • Earth in Space • SG: L03 (pp22-41) • SG: L10 (pp130-145)

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		<ul style="list-style-type: none"> • SG: L21 (pp334-339) • TG: L01 (pp3-10) • TG: L02.Exts (pp18-19) • TG: L03 (pp21-36) • TG: L08 (pp97-120) • TG: L10 (pp147-158) • TG: L17.Exts (pp275-276) • TG: L21 (pp309-310) • Energy, Machines, and Motion • SG: L16-17 (pp148-173) • GEMS Electric Circuits • TG: Ses01 (pp13-33) • Human Body Systems • TG: L01.Exts (p7) • TG: L22.Exts (p258) • Light • SG: L05 (pp48-57) • SG: L08 (pp82-91) • SG: L11 (pp116-131) • SG: L15 (pp154-165) • SG: L23-25 (pp252-293) • TG: L08 (pp99-106) • TG: L15.Exts (p187) • TG: L16.Exts (p203) • TG: L19.Exts (p257) • TG: L25.Exts (p342) • Measuring Time • TG: L04 (pp43-48) • Properties of Matter • SG: L02 (pp14-23) • SG: L07 (pp64-73) • SG: L10-11 (pp86-105) • SG: L25 (pp224-229) • The Technology of Paper • TG: L05 (pp75-90) • TG: L14 (pp171-184) • TG: L18 (pp215-218) • STC Book: Ecosystems: (pp07-10), (pp54-61) • STC Book: Experiments with Plants: (pp41-46) • STC Book: Floating and Sinking: (pp07-10), (pp18-26), (pp29-30), • STC Book: Food Chemistry: (pp15-18), (pp21-23), (pp36-38), (pp44-46) • STC Book: Magnets and Motors: (pp07-08), (pp17-20), (pp23-25), (pp28-38), (pp41-44), (pp55-57) • STC Book: Measuring Time: (pp10-21), (pp24-27), (pp35-47), (pp50-52) • STC Book: Microworlds: (pp48-55) • STC Book: The Technology of Paper: (pp10-15), (pp20-24), (pp30-32), (pp49-61)
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STANDARD / BODY OF KNOWLEDGE	FL.SC.6.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.6.N.3.	The Role of Theories, Laws, Hypotheses, and Models - The terms that describe examples of scientific knowledge, for example; "theory," "law," "hypothesis," and "model" have very specific meanings and functions within science.
BENCHMARK / DESCRIPTOR	SC.6.N.3.1.	<p>Recognize and explain that a scientific theory is a well-supported and widely accepted explanation of nature and is not simply a claim posed by an individual. Thus, the use of the term theory in science is very different than how it is used in everyday life.</p> <ul style="list-style-type: none"> • Life Through Time • TG: Ses01-07 (pp13-269) • Light • TG: L19.Exts (p257) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Properties of Matter • TG: L01.Exts (p9)
BENCHMARK / DESCRIPTOR	SC.6.N.3.2.	<p>Recognize and explain that a scientific law is a description of a specific relationship under given conditions in the natural world. Thus, scientific laws are different from societal laws.</p> <ul style="list-style-type: none"> • Earth, Moon, and Stars • TG: Act02 (pp9-16)
BENCHMARK / DESCRIPTOR	SC.6.N.3.3.	<p>Give several examples of scientific laws.</p> <ul style="list-style-type: none"> • Earth, Moon, and Stars • TG: Act02 (pp9-16) • Earth in Space • SG: L15 (pp216-243) • TG: L15-16 (pp221-268) • Energy, Machines, and Motion • SG: L05-06 (pp36-61) • SG: L20-21 (pp200-225) • TG: L05 (pp47-58) • TG: L20-21 (pp235-246) • Floating and Sinking • TG: L04-05 (pp31-48) • Organisms-From Macro to Micro • SG: L19-20 (pp216-243) • TG: L19-20 (pp303-350) • The Real Reasons for the Seasons • TG: Act04 (pp49-56) • STC Book: Experiments with Plants: (pp36-40)

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BENCHMARK / DESCRIPTOR	SC.6.N.3.4.	<p>Identify the role of models in the context of the sixth grade science benchmarks.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses03-04 (pp39-71) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • Catastrophic Events • SG: L02 (pp12-25) • SG: L06 (pp68-79) • SG: L11-12 (pp120-153) • SG: L15 (pp170-189) • SG: L17 (pp194-197) • SG: L19-20 (pp210-231) • SG: L24-25 (pp264-282) • TG: L02 (pp17-26) • TG: L06 (pp69-82) • TG: L11-12 (pp149-176) • TG: L14.Exts (pp193-194) • TG: L15 (pp197-218) • TG: L17 (pp233-256) • TG: L19-20 (pp265-292) • TG: L23.Exts (pp325-326) • TG: L24-25 (pp329-372) • Earth, Moon, and Stars • TG: Act01 (pp3-8) • Earth in Space • SG: L02-07 (pp12-101) • SG: L09 (pp122-127) • SG: L11-14 (pp146-215) • SG: L18 (pp290-311) • TG: L01.Exts (p10) • TG: L02-07 (pp11-96) • TG: L08.Exts (pp108-109) • TG: L09 (pp121-146) • TG: L11-14 (pp159-220) • TG: L16.Exts (p256) • TG: L17.Exts (pp275-276) • TG: L18 (pp277-286) • TG: L20.Exts (p297) • Ecosystems • TG: L02-07 (pp13-82) • TG: L10 (pp99-110) • TG: L13 (pp125-132) • Electrical Energy and Circuit Design • SG: L04 (pp36-45) • SG: L06 (pp58-69) • SG: L09 (pp94-103) • SG: L24 (pp244-251) • TG: L04 (pp49-60) • TG: L06 (pp77-92)
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		<ul style="list-style-type: none"> • TG: L09 (pp123-142) • TG: L24 (pp313-326) • Energy, Machines, and Motion • SG: L12-13 (pp108-129) • TG: L04 (pp37-46) • TG: L12-13 (pp147-166) • Experiments with Plants • TG: L06.Exts (p62) • Floating and Sinking • TG: L06 (pp49-54) • Hot Water and Warm Homes from Sunlight • TG: Ses01-02 (pp7-16) • TG: Ses04 (pp33-37) • Human Body Systems • SG: L02 (pp8-13) • SG: L06-07 (pp40-59) • SG: L10 (pp76-89) • SG: L12 (pp98-109) • SG: L14 (pp120-129) • SG: L16 (pp138-143) • SG: L19 (pp160-167) • TG: L02 (pp11-18) • TG: L06-07 (pp57-80) • TG: L10 (pp113-130) • TG: L12 (pp137-152) • TG: L14 (pp159-172) • TG: L16 (pp183-190) • TG: L19 (pp219-234) • Living with a Star • TG: Act02 (pp41-58) • Light • SG: L07 (pp68-81) • SG: L09 (pp92-107) • SG: L17 (pp186-199) • SG: L19 (pp214-223) • TG: L07 (pp83-98) • TG: L16.Exts (p203) • TG: L17 (pp205-224) • TG: L19 (pp247-274) • Microscopic Explorations • TG: Act10 (pp93-97) • Messages From Space • TG: Act03 (pp46-87) • TG: Act05 (pp96-123) • Moons of Jupiter • TG: Act03 (pp31-39) • Measuring Time • TG: L06 (pp59-66) • TG: L13 (pp123-134) • Organisms-From Macro to Micro • SG: L08 (pp96-105)
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		<ul style="list-style-type: none"> • SG: L10 (pp120-131) • TG: L08 (pp131-150) • TG: L10 (pp167-184) • TG: L17.Exts (pp287-288) • TG: L18.Exts (pp299-300) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Properties of Matter • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L14.Exts (p157) • TG: L15.Exts (p166) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act02-03 (pp22-48) • TG: Act07 (pp73-79) • Stories in Stone • TG: Ses03 (pp33-45)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.6.E.6.	Earth Structures - Over geologic time, internal and external sources of energy have continuously altered the features of Earth by means of both constructive and destructive forces. All life, including human civilization, is dependent on Earth's internal and external energy and material resources.
BENCHMARK / DESCRIPTOR	SC.6.E.6.1.	Describe and give examples of ways in which Earth's surface is built up and torn down by physical and chemical weathering, erosion, and deposition. <ul style="list-style-type: none"> • Environmental Detectives • TG: Act04 (pp91-111) • Earth in Space • SG: L13 (pp174-199) • TG: L13 (pp197-208) • Human Body Systems • TG: L13.Exts (p158) • River Cutters • TG: Ses02-04 (pp27-54) • TG: Ses06-07 (pp59-72) • Stories in Stone • TG: Ses05 (pp65-73) • STC Book: Experiments with Plants: (pp20-21)
BENCHMARK / DESCRIPTOR	SC.6.E.6.2.	Recognize that there are a variety of different landforms on Earth's surface such as coastlines, dunes, rivers, mountains, glaciers, deltas, and lakes and relate these landforms as they apply to Florida. <ul style="list-style-type: none"> • Catastrophic Events

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		<ul style="list-style-type: none"> • SG: L01 (pp2-11) • SG: L19 (pp210-223) • TG: L01 (pp3-16) • TG: L19 (pp265-278) • Earth in Space • SG: L13 (pp174-199) • SG: L19 (pp312-323) • TG: L12-13 (pp181-208) • TG: L19 (pp287-292) • Plate Tectonics • TG: Ses02 (pp31-41) • River Cutters • TG: Ses02 (pp27-34) • TG: Ses06 (pp59-65) • Stories in Stone • TG: Ses07 (pp83-101)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.6.E.7.	.Earth Systems and Patterns - The scientific theory of the evolution of Earth states that changes in our planet are driven by the flow of energy and the cycling of matter through dynamic interactions among the atmosphere, hydrosphere, cryosphere, geosphere, and biosphere, and the resources used to sustain human civilization on Earth.
BENCHMARK / DESCRIPTOR	SC.6.E.7.1.	Differentiate among radiation, conduction, and convection, the three mechanisms by which heat is transferred through Earth's system. <ul style="list-style-type: none"> • Catastrophic Events • SG: L03 (pp26-41) • SG: L05 (pp54-67) • SG: L13 (pp154-163) • TG: L03 (pp27-44) • TG: L05 (pp57-68) • TG: L13 (pp177-186) • Earth in Space • SG: L07-09 (pp88-127) • TG: L07-09 (pp83-) • Hot Water and Warm Homes from Sunlight • TG: Ses03-04 (pp19-37)
BENCHMARK / DESCRIPTOR	SC.6.E.7.2.	Investigate and apply how the cycling of water between the atmosphere and hydrosphere has an effect on weather patterns and climate. <ul style="list-style-type: none"> • Catastrophic Events • SG: L06 (pp68-79) • TG: L06 (pp69-82) • Properties of Matter • SG: L01 (pp2-13)

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BENCHMARK / DESCRIPTOR	SC.6.E.7.3.	<p>Describe how global patterns such as the jet stream and ocean currents influence local weather in measurable terms such as temperature, air pressure, wind direction and speed, and humidity and precipitation.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L04 (pp42-53) • SG: L07 (pp80-95) • TG: L07 (pp83-102) • STC Book: Floating and Sinking: (pp48-50)
BENCHMARK / DESCRIPTOR	SC.6.E.7.4.	<p>Differentiate and show interactions among the geosphere, hydrosphere, cryosphere, atmosphere, and biosphere.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L01-06 (pp2-79) • SG: L16 (pp190-193) • TG: L01-06 (pp3-82) • TG: L16 (pp219-232) • Earth in Space • SG: L17 (pp268-289) • TG: L17 (pp269-276) • Experiments with Plants • TG: L03 (pp31-38) • Properties of Matter • SG: L01 (pp2-13) • TG: L05.Exts (p56) • River Cutters • TG: Ses02-04 (pp27-54) • TG: Ses06-07 (pp59-72) • STC Book: Ecosystems: (pp07-10), (pp45-48), (pp57-59) • STC Book: Floating and Sinking: (pp36-40)
BENCHMARK / DESCRIPTOR	SC.6.E.7.5.	<p>Explain how energy provided by the sun influences global patterns of atmospheric movement and the temperature differences between air, water, and land.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03 (pp26-41) • SG: L05 (pp54-67) • SG: L13 (pp154-163) • TG: L03 (pp27-44) • TG: L05 (pp57-68) • TG: L13 (pp177-186) • Earth in Space • SG: L07-09 (pp88-127) • TG: L07-09 (pp83-146) • Hot Water and Warm Homes from Sunlight • TG: Ses03-04 (pp19-37)

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BENCHMARK / DESCRIPTOR	SC.6.E.7.6.	Differentiate between weather and climate. <ul style="list-style-type: none"> • Catastrophic Events • SG: L02-04 (pp12-53) • SG: L07 (pp80-95) • TG: L02-03 (pp17-44) • TG: L04.Exts (p54) • TG: L06.Exts (pp77-78) • TG: L07 (pp83-102) • Earth in Space • SG: L19 (pp312-323) • TG: L19 (pp287-292) • Human Body Systems • TG: L22.Exts (p258) • Light • TG: L03.Exts (p43)
BENCHMARK / DESCRIPTOR	SC.6.E.7.7.	Investigate how natural disasters have affected human life in Florida. <ul style="list-style-type: none"> • Catastrophic Events • SG: L10 (pp114-119) • SG: L13 (pp154-163) • TG: L10 (pp143-148) • TG: L13 (pp177-186) • STC Book: Ecosystems: (pp31-34)
BENCHMARK / DESCRIPTOR	SC.6.E.7.9.	Describe how the composition and structure of the atmosphere protects life and insulates the planet. <ul style="list-style-type: none"> • Catastrophic Events • TG: L03.Exts (pp35-36) • STC Book: Floating and Sinking: (pp36-40)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.6.P.12.	Motion of Objects - A. Motion is a key characteristic of all matter that can be observed, described, and measured. B. The motion of objects can be changed by forces.
BENCHMARK / DESCRIPTOR	SC.6.P.12.1.	Measure and graph distance versus time for an object moving at a constant speed. Interpret this relationship. <ul style="list-style-type: none"> • Energy, Machines, and Motion • SG: L06 (pp48-61) • SG: L18-19 (pp174-199) • SG: L21 (pp214-225) • TG: L01.Exts (p14) • TG: L06.Exts (pp68-69) • TG: L18-19 (pp217-234)

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		<ul style="list-style-type: none"> TG: L21 (pp239-246)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.6.P.13.	Forces and Changes in Motion - A. It takes energy to change the motion of objects. B. Energy change is understood in terms of forces--pushes or pulls. C. Some forces act through physical contact, while others act at a distance.
BENCHMARK / DESCRIPTOR	SC.6.P.13.1.	<p>Investigate and describe types of forces including contact forces and forces acting at a distance, such as electrical, magnetic, and gravitational.</p> <ul style="list-style-type: none"> Catastrophic Events SG: L11-12 (pp120-153) SG: L15 (pp170-189) TG: L11-12 (pp149-176) TG: L15 (pp197-218) Earth, Moon, and Stars TG: Act01 (pp3-8) Earth in Space SG: L15 (pp216-243) TG: L15 (pp221-244) Energy, Machines, and Motion SG: L01 (pp2-11) SG: L05-13 (pp36-129) SG: L15-22 (pp140-236) TG: L01 (pp3-22) TG: L05-13 (pp47-166) TG: L15-22 (pp177-254) Floating and Sinking TG: L09 (pp69-78)
BENCHMARK / DESCRIPTOR	SC.6.P.13.2.	<p>Explore the Law of Gravity by recognizing that every object exerts gravitational force on every other object and that the force depends on how much mass the objects have and how far apart they are.</p> <ul style="list-style-type: none"> Earth, Moon, and Stars TG: Act02 (pp9-16) Earth in Space SG: L14 (pp200-215) Floating and Sinking TG: L04-05 (pp31-48)
BENCHMARK / DESCRIPTOR	SC.6.P.13.3.	<p>Investigate and describe that an unbalanced force acting on an object changes its speed, or direction of motion, or both.</p> <ul style="list-style-type: none"> Energy, Machines, and Motion SG: L01 (pp2-11) SG: L05-08 (pp36-81) SG: L11-13 (pp100-129) SG: L18-19 (pp174-199)

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		<ul style="list-style-type: none"> • SG: L21 (pp214-225) • TG: L01 (pp3-22) • TG: L05-08 (pp47-98) • TG: L11-13 (pp131-166) • TG: L18-19 (pp217-234) • TG: L21 (pp239-246)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.P.	Physical Science
BENCHMARK / BIG IDEA	SC.6.P.11.	Energy Transfer and Transformations - A. Waves involve a transfer of energy without a transfer of matter. B. Water and sound waves transfer energy through a material. C. Light waves can travel through a vacuum and through matter. D. The Law of Conservation of Energy: Energy is conserved as it transfers from one object to another and from one form to another.
BENCHMARK / DESCRIPTOR	SC.6.P.11.1.	<p>Explore the Law of Conservation of Energy by differentiating between potential and kinetic energy. Identify situations where kinetic energy is transformed into potential energy and vice versa.</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • SG: L01-02 (pp2-25) • SG: L07-10 (pp70-117) • SG: L12 (pp122-133) • SG: L15-19 (pp156-209) • TG: L01 (pp3-22) • TG: L02 (pp23-36) • TG: L07-10 (pp93-156) • TG: L12 (pp169-180) • TG: L15-19 (pp213-276) • Energy, Machines, and Motion • SG: L02-04 (pp12-35) • SG: L09-10 (pp82-97) • SG: L17 (pp164-173) • SG: L19-22 (pp188-236) • TG: L01-04 (pp3-46) • TG: L09-10 (pp99-130) • TG: L17 (pp203-216) • TG: L19-22 (pp229-254) • Light • SG: L02 (pp20-31) • SG: L07 (pp68-81) • SG: L26 (pp294-297) • TG: L02 (pp21-36) • TG: L26 (pp349-367) • Magnets and Motors • TG: L16 (pp99-102) • STC Book: Magnets and Motors: (pp45-46)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.L.	Life Science

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BENCHMARK / BIG IDEA	SC.6.L.14.	Organization and Development of Living Organisms - A. All living things share certain characteristics. B. The scientific theory of cells, also called cell theory, is the a fundamental organizing principle of life on Earth. C. Life can be organized in a functional and structural hierarchy. D. Life is maintained by various physiological functions essential for growth, reproduction, and homeostasis.
BENCHMARK / DESCRIPTOR	SC.6.L.14.3.	<p>Recognize and explore how cells of all organisms undergo similar processes to maintain homeostasis, including extracting energy from food, getting rid of waste, and reproducing.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01 (pp7-19) • Earth in Space • TG: L07.Exts (pp92-93) • Ecosystems • TG: L03 (pp25-38) • Experiments with Plants • TG: L01-02 (pp9-30) • TG: L04 (pp39-50) • TG: L12 (pp91-100) • TG: L14-15 (pp105-122) • Human Body Systems • SG: L22 (pp182-189) • TG: L22 (pp253-276) • Microworlds • TG: L12.Exts (pp69-70) • TG: L13-14 (pp71- • Organisms-From Macro to Micro • SG: L05 (pp46-63) • SG: L07-10 (pp82-131) • SG: L19 (pp216-235) • TG: L05 (pp57-72) • TG: L07-10 (pp105-184) • TG: L15.Exts (p260) • TG: L19 (pp303-330) • Terrarium Habitats • TG: Act01-02 (pp5-21) • STC Book: Experiments with Plants: (pp07-10), (pp14-19),(pp30-33), (pp41-43) • STC Book: Microworlds: (pp28-30)
BENCHMARK / DESCRIPTOR	SC.6.L.14.4.	<p>Compare and contrast the structure and function of major organelles of plant and animal cells, including cell wall, cell membrane, nucleus, cytoplasm, chloroplasts, mitochondria, and vacuoles.</p> <ul style="list-style-type: none"> • Human Body Systems • SG: L06 (pp40-49) • Microworlds • TG: L11-16 (pp61-86) • Organisms-From Macro to Micro • SG: L07-08 (pp82-105)

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		<ul style="list-style-type: none"> TG: L07-08 (pp105-150)
BENCHMARK / DESCRIPTOR	SC.6.L.14.5.	<p>Identify and investigate the general functions of the major systems of the human body (digestive, respiratory, circulatory, reproductive, excretory, immune, nervous, and musculoskeletal) and describe ways these systems interact with each other to maintain homeostasis.</p> <ul style="list-style-type: none"> Human Body Systems SG: L01-02 (pp2-13) SG: L04-08 (pp24-65) SG: L10-11 (pp76-97) SG: L14-23 (pp120-195) TG: L01-23 (pp3-276) STC Book: Food Chemistry: (pp39-40)
BENCHMARK / DESCRIPTOR	SC.6.L.14.6.	<p>Compare and contrast types of infectious agents that may infect the human body, including viruses, bacteria, fungi, and parasites.</p> <ul style="list-style-type: none"> Ecosystems TG: L05.Exts (p57) Food Chemistry TG: L02.Exts (p19) Microworlds TG: L15-16 (pp79-86) Organisms-From Macro to Micro SG: L11 (pp132-145) TG: L11 (pp185-200) STC Book: Microworlds: (pp37-43), (pp46-47), (pp56-57)
STANDARD / BODY OF KNOWLEDGE	FL.SC.6.L.	Life Science
BENCHMARK / BIG IDEA	SC.6.L.15.	Diversity and Evolution of Living Organisms - A. The scientific theory of evolution is the organizing principle of life science. B. The scientific theory of evolution is supported by multiple forms of evidence. C. Natural Selection is a primary mechanism leading to change over time in organisms.
BENCHMARK / DESCRIPTOR	SC.6.L.15.1.	<p>Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.</p> <ul style="list-style-type: none"> Life Through Time TG: Ses01-06 (pp13-234) Organisms-From Macro to Micro SG: L01 (pp2-11) SG: L20 (pp236-243) TG: L20 (pp331-350) Schoolyard Ecology TG: Act03 (pp33-41) STC Book: Experiments with Plants: (pp07-10), (pp54-56)

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Grade 7

STANDARD / BODY OF KNOWLEDGE	FL.SC.7.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.7.N.1.	<p>The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method."C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and processes, but also in its questions and explanations.</p>
BENCHMARK / DESCRIPTOR	SC.7.N.1.1.	<p>Define a problem from the seventh grade 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.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble-ology • TG: Act01-06 (pp5-44) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • TG: Exts (pp63-64) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11)

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		<ul style="list-style-type: none"> • SG: L03-05 (pp22-73) • SG: L09-11 (pp122-159) • SG: L13-14 (pp174-215) • SG: L18-20 (pp290-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L03-05 (pp21-72) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-308) • TG: L22 (pp311-326) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Experiments with Plants • TG: L01-16 (pp9-128) • Fingerprinting • TG: Ses01-03 (pp7-25) • Global Warming and the Greenhouse Effect • TG: Ses01-08 (pp5-124) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L02-23 (pp8-195) • TG: L01-23 (pp3-276) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Magnets and Motors • TG: L10.Exts (p69) • TG: L14 (pp89-94)
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		<ul style="list-style-type: none"> • TG: L16-17 (pp99-108) • Measuring Time • TG: L02-03 (pp21- -42) • TG: L05 (pp49-58) • TG: L07-12 (pp67-122) • TG: L15-16 (pp139-148) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113) • The Technology of Paper • TG: L01-18 (pp19-218) • STC Book: Experiments with Plants: (pp57-61) • STC Book: Magnets and Motors: (pp14-16), (pp33-38) • STC Book: The Technology of Paper: (pp16-19)
BENCHMARK / DESCRIPTOR	SC.7.N.1.2.	<p>Differentiate replication (by others) from repetition (multiple trials).</p> <ul style="list-style-type: none"> • Experiments with Plants • TG: L14.Exts (pp109-110)
BENCHMARK / DESCRIPTOR	SC.7.N.1.3.	<p>Distinguish between an experiment (which must involve the identification and control of variables) and other forms of scientific investigation and explain that not all scientific knowledge is derived from experimentation.</p> <ul style="list-style-type: none"> • Acid Rain

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		<ul style="list-style-type: none"> • TG: Ses01-08 (pp7-119) • Bubble-ology • TG: Act01 (pp5-9) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • TG: Exts (pp63-64) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-07 (pp15-202) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11) • SG: L04-06 (pp42-87) • SG: L09 (pp122-127) • SG: L11 (pp146-159) • SG: L13-14 (pp174-215) • SG: L18 (pp290-311) • SG: L20 (pp324-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L04-06 (pp37-82) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-308) • TG: L22 (pp311-326) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Experiments with Plants
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		<ul style="list-style-type: none"> • TG: L01-16 (pp9-128) • Fingerprinting • TG: Ses01-03 (pp7-25) • Global Warming and the Greenhouse Effect • TG: Ses01-08 (pp5-124) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L02-23 (pp8-195) • TG: L01.Exts (p7) • TG: L02-23 (pp11-276) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Magnets and Motors • TG: L02-17 (pp11-108) • Measuring Time • TG: L02-03 (pp21-42) • TG: L06-16 (pp59-148) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129)
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		<ul style="list-style-type: none"> • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113) • The Technology of Paper • TG: L01-18 (pp19-218) • STC Book: Experiments with Plants: (pp14-17), (pp36-40), (pp54-56) • STC Book: Magnets and Motors: (pp14-16), (pp33-38)
BENCHMARK / DESCRIPTOR	SC.7.N.1.5.	<p>Describe the methods used in the pursuit of a scientific explanation as seen in different fields of science such as biology, geology, and physics.</p> <ul style="list-style-type: none"> • Experiments with Plants • TG: L01-03 (pp9-38) • TG: L11.Exts (p89) • TG: L12 (pp91-100)
BENCHMARK / DESCRIPTOR	SC.7.N.1.6.	<p>Explain that empirical evidence is the cumulative body of observations of a natural phenomenon on which scientific explanations are based.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble-ology • TG: Act01-06 (pp5-44) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46)

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		<ul style="list-style-type: none"> • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11) • SG: L04-05 (pp42-73) • SG: L09-11 (pp122-159) • SG: L13-14 (pp174-215) • SG: L18-20 (pp290-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L04 -05(pp37-72) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-308) • TG: L22 (pp311-326) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Experiments with Plants • TG: L01-16 (pp9-128) • Fingerprinting • TG: Ses01-03 (pp7-25) • Global Warming and the Greenhouse Effect • TG: Ses01-08 (pp5-124) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L02-08 (pp8-65) • SG: L10-23 (pp76-195) • Human Body Systems • TG: L01-23 (pp3-276) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97)
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		<ul style="list-style-type: none"> • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Magnets and Motors • TG: L14 (pp89-94) • TG: L16 (pp99-102) • Measuring Time • TG: L03 (pp31-42) • TG: L05 (pp49-58) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113) • The Technology of Paper • TG: L01-18 (pp19-218) • STC Book: Experiments with Plants: (pp57-61) • STC Book: Magnets and Motors: (pp14-16), (pp33-38) • STC Book: The Technology of Paper: (pp16-19)
BENCHMARK / DESCRIPTOR	SC.7.N.1.7.	Explain that scientific knowledge is the result of a great deal of debate and

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		<p>confirmation within the science community.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L18 (pp200-209) • TG: L18 (pp257-264) • Dry Ice Investigations • TG: Act01 (pp19-47) • Electrical Energy and Circuit Design • SG: L02 (pp12-25) • TG: L02 (pp23-36) • Experiments with Plants • TG: L11.Exts (p89) • Human Body Systems • TG: L01.Exts (p7)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.7.N.2.	The Characteristics of Scientific Knowledge - A: Scientific knowledge is based on empirical evidence, and is appropriate for understanding the natural world, but it provides only a limited understanding of the supernatural, aesthetic, or other ways of knowing, such as art, philosophy, or religion. B: Scientific knowledge is durable and robust, but open to change. C: Because science is based on empirical evidence it strives for objectivity, but as it is a human endeavor the processes, methods, and knowledge of science include subjectivity, as well as creativity and discovery.
BENCHMARK / DESCRIPTOR	SC.7.N.2.1.	<p>Identify an instance from the history of science in which scientific knowledge has changed when new evidence or new interpretations are encountered.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L10 (pp114-119) • SG: L14 (pp164-169) • SG: L21 (pp232-239) • TG: L10 (pp143-148) • TG: L14 (pp187-196) • TG: L21 (pp293-302) • Earth, Moon, and Stars • TG: Act01 (pp3-8) • Earth in Space • SG: L10 (pp130-145) • SG: L20-21 (pp324-339) • TG: L04 (pp37-52) • TG: L10 (pp147-158) • TG: L20-21 (pp293-310) • Energy, Machines, and Motion • SG: L01-02 (pp2-19) • SG: L07 (pp62-71) • SG: L11 (pp100-107) • SG: L14-16 (pp130-161) • TG: L14 (pp167-176) • Human Body Systems

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		<ul style="list-style-type: none"> • TG: L01.Exts (p7) • TG: L10.Exts (p122) • TG: L18.Exts (pp215-216) • TG: L19.Exts (p225) • Living with a Star • TG: Act03 (pp61-84) • Moons of Jupiter • TG: Act01 (pp7-17) • Organisms-From Macro to Micro • SG: L02 (pp12-27) • SG: L08 (pp96-105) • SG: L13 (pp158-171) • SG: L18-19 (pp204-235) • TG: L13 (pp219-236) • Plate Tectonics • TG: Ses08 (pp113-129) • Properties of Matter • SG: L01 (pp2-13) • SG: L05 (pp38-55) • SG: L07 (pp64-73) • SG: L09 (pp78-83) • SG: L11 (pp98-105) • SG: L15 (pp122-129) • SG: L19 (pp162-167) • SG: L21-23 (pp186-217) • SG: L25 (pp224-229) • The Technology of Paper • TG: L01 (pp19-28) • TG: L05 (pp75-90) • TG: L14 (pp171-184) • STC Book: Experiments with Plants: (pp11-13), (pp36-46), (pp54-56), (pp60-61) • STC Book: Measuring Time: (pp35-38) • STC Book: The Technology of Paper: (pp07-24), (pp33-35), (pp55-57)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.7.N.3.	The Role of Theories, Laws, Hypotheses, and Models - The terms that describe examples of scientific knowledge, for example; "theory," "law," "hypothesis," and "model" have very specific meanings and functions within science.
BENCHMARK / DESCRIPTOR	SC.7.N.3.1.	Recognize and explain the difference between theories and laws and give several examples of scientific theories and the evidence that supports them. <ul style="list-style-type: none"> • Catastrophic Events • SG: L15 (pp170-189) • TG: L15 (pp197-218) • Earth, Moon, and Stars • TG: Act02 (pp9-16) • Earth in Space • TG: L01 (pp3-10)

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		<ul style="list-style-type: none"> • Global Warming and the Greenhouse Effect • TG: Ses02 (pp17-27) • Life Through Time • TG: Ses01-07 (pp13-269) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Properties of Matter • SG: L01 (pp2-13) • TG: L01.Exts (p9) • TG: L02.Exts (p21) • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L14.Exts (p157) • TG: L15.Exts (p166) • TG: L21.Exts (p251)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.7.N.3.2.</p>	<p>Identify the benefits and limitations of the use of scientific models.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses03-04 (pp39-71) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • Catastrophic Events • SG: L02 (pp12-25) • SG: L06 (pp68-79) • SG: L11-12 (pp120-153) • SG: L15 (pp170-189) • SG: L17 (pp194-197) • SG: L19 (pp210-223) • SG: L20 (pp224-231) • SG: L24-25 (pp264-282) • TG: L02 (pp17-26) • TG: L06 (pp69-82) • TG: L11-12 (pp149-176) • TG: L14.Exts (pp193-194) • TG: L15 (pp197-218) • TG: L17 (pp233-256) • TG: L19 (pp265-278) • TG: L20 (pp279-292) • TG: L23.Exts (pp325-326) • TG: L24-25 (pp329-372) • Earth, Moon, and Stars • TG: Act01 (pp3-8) • Earth in Space • SG: L02-07 (pp12-101) • SG: L09 (pp122-127) • SG: L11-14 (pp146-215) • SG: L18 (pp290-311) • TG: L01.Exts (p10) • TG: L02-07 (pp11-96)

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		<ul style="list-style-type: none"> • TG: L08.Exts (pp108-109) • TG: L09 (pp121-146) • TG: L11-14 (pp159-220) • TG: L16.Exts (p256) • TG: L17.Exts (pp275-276) • TG: L18 (pp277-286) • TG: L20.Exts (p297) • Electrical Energy and Circuit Design • SG: L04 (pp36-45) • SG: L06 (pp58-69) • SG: L09 (pp94-103) • SG: L24 (pp244-251) • TG: L04 (pp49-60) • TG: L06 (pp77-92) • TG: L09 (pp123-142) • TG: L24 (pp313-326) • Energy, Machines, and Motion • SG: L12-13 (pp108-129) • TG: L04 (pp37-46) • TG: L12-13 (pp147-166) • Experiments with Plants • TG: L06.Exts (p62) • Global Warming and the Greenhouse Effect • TG: Ses02 (pp17-27) • Hot Water and Warm Homes from Sunlight • TG: Ses01-02 (pp7-16) • TG: Ses04 (pp33-37) • Human Body Systems • SG: L02 (pp8-13) • SG: L06-07 (pp40-59) • SG: L10 (pp76-89) • SG: L12 (pp98-109) • SG: L14 (pp120-129) • SG: L16 (pp138-143) • SG: L19 (pp160-167) • TG: L02 (pp11-18) • TG: L06-07 (pp57-80) • TG: L10 (pp113-130) • TG: L12 (pp137-152) • TG: L14 (pp159-172) • TG: L16 (pp183-190) • TG: L19 (pp219-234) • Living with a Star • TG: Act02 (pp41-58) • Light • SG: L07 (pp68-81) • SG: L09 (pp92-107) • SG: L17 (pp186-199) • SG: L19 (pp214-223) • TG: L07 (pp83-98) • TG: L16.Exts (p203)
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		<ul style="list-style-type: none"> • TG: L17 (pp205-224) • TG: L19 (pp247-274) • Microscopic Explorations • TG: Act10 (pp93-97) • Messages From Space • TG: Act03 (pp46-87) • TG: Act05 (pp96-123) • Moons of Jupiter • TG: Act03 (pp31-39) • Measuring Time • TG: L06 (pp59-66) • TG: L13 (pp123-134) • Organisms-From Macro to Micro • SG: L08 (pp96-105) • SG: L10 (pp120-131) • TG: L07.Exts (pp118-119) • TG: L08 (pp131-150) • TG: L10 (pp167-184) • TG: L17.Exts (pp287-288) • TG: L18.Exts (pp299-300) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Properties of Matter • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L14.Exts (p157) • TG: L15.Exts (p166) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act02-03 (pp22-48) • TG: Act07 (pp73-79) • Stories in Stone • TG: Ses03 (pp33-45)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.7.E.6.	Earth Structures - Over geologic time, internal and external sources of energy have continuously altered the features of Earth by means of both constructive and destructive forces. All life, including human civilization, is dependent on Earth's internal and external energy and material resources.
BENCHMARK / DESCRIPTOR	SC.7.E.6.1.	Describe the layers of the solid Earth, including the lithosphere, the hot convecting mantle, and the dense metallic liquid and solid cores. <ul style="list-style-type: none"> • Catastrophic Events • SG: L10 (pp114-119) • SG: L14-18 (pp164-209) • TG: L10 (pp143-148)

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		<ul style="list-style-type: none"> • TG: L14-18 (pp187-264) • Plate Tectonics • TG: Ses03 (pp43-55) • Properties of Matter • SG: L05 (pp38-55) • TG: L05.Exts (p56)
BENCHMARK / DESCRIPTOR	SC.7.E.6.2.	<p>Identify the patterns within the rock cycle and relate them to surface events (weathering and erosion) and sub-surface events (plate tectonics and mountain building).</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L21-22 (pp232-251) • TG: L21-22 (pp293-316) • Plate Tectonics • TG: Ses07 (pp93-111) • Stories in Stone • TG: Ses08 (pp103-113)
BENCHMARK / DESCRIPTOR	SC.7.E.6.3.	<p>Identify current methods for measuring the age of Earth and its parts, including the law of superposition and radioactive dating.</p> <ul style="list-style-type: none"> • Earth in Space • SG: L18 (pp290-311) • TG: L18 (pp277-286) • Plate Tectonics • TG: Ses01 (pp21-29) • TG: Ses06 (pp79-91) • STC Book: Measuring Time: (pp18-21)
BENCHMARK / DESCRIPTOR	SC.7.E.6.4.	<p>Explain and give examples of how physical evidence supports scientific theories that Earth has evolved over geologic time due to natural processes.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L15 (pp170-189) • TG: L15 (pp197-218) • TG: L16.Exts (p225) • Earth in Space • SG: L18 (pp290-311) • TG: L18 (pp277-286) • Life Through Time • TG: Ses02-03 (pp37-138) • Plate Tectonics • TG: Ses01 (pp21-29) • TG: Ses08 (pp113-129) • Properties of Matter • SG: L01 (pp2-13) • STC Book: Measuring Time: (pp18-21)
BENCHMARK /	SC.7.E.6.5.	<p>Explore the scientific theory of plate tectonics by describing how the movement</p>

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<p>DESCRIPTOR</p>		<p>of Earth's crustal plates causes both slow and rapid changes in Earth's surface, including volcanic eruptions, earthquakes, and mountain building.</p> <ul style="list-style-type: none"> • Convection: A Current Event • TG: Exts (pp27-29) • Catastrophic Events • SG: L10 (pp114-119) • SG: L13-18 (pp154-209) • TG: L10 (pp143-148) • TG: L13-18 (pp177-264) • Earth in Space • SG: L13 (pp174-199) • TG: L13 (pp197-208) • Plate Tectonics • TG: Ses01-03 (pp21-55) • TG: Ses06-08 (pp79-129) • Properties of Matter • SG: L05 (pp38-55) • Stories in Stone • TG: Ses07 (pp83-101)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.7.E.6.6.</p>	<p>Identify the impact that humans have had on Earth, such as deforestation, urbanization, desertification, erosion, air and water quality, changing the flow of water.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01-08 (pp7-119) • TG: Exts (pp120-122) • Catastrophic Events • SG: L24 (pp264-273) • TG: L24 (pp329-346) • Environmental Detectives • TG: Act01-08 (pp15-208) • Experiments with Plants • TG: L02.Exts (p24) • Global Warming and the Greenhouse Effect • TG: Ses04 (pp59-75) • TG: Ses06-08 (pp93-124) • Ocean Currents • TG: Act01-02 (pp9-45) • Properties of Matter • SG: L12 (pp106-111) • TG: L12.Exts (p140) • River Cutters • TG: Ses04-05 (pp49-57) • TG: Exts (p73)

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BENCHMARK / DESCRIPTOR	SC.7.E.6.7.	<p>Recognize that heat flow and movement of material within Earth causes earthquakes and volcanic eruptions, and creates mountains and ocean basins.</p> <ul style="list-style-type: none"> • Convection: A Current Event • TG: Exts (pp27-29) • Catastrophic Events • SG: L13 (pp154-163) • SG: L15-16 (pp170-193) • SG: L18 (pp200-209) • TG: L13 (pp177-186) • TG: L15-16 (pp197-232) • TG: L18 (pp257-264) • Plate Tectonics • TG: Ses07 (pp93-111) • Properties of Matter • TG: L05.Exts (p56) • Stories in Stone • TG: Ses07 (pp83-101)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.P.	Physical Science
BENCHMARK / BIG IDEA	SC.7.P.10.	Forms of Energy - A. Energy is involved in all physical processes and is a unifying concept in many areas of science. B. Energy exists in many forms and has the ability to do work or cause a change.
BENCHMARK / DESCRIPTOR	SC.7.P.10.1.	<p>Illustrate that the sun's energy arrives as radiation with a wide range of wavelengths, including infrared, visible, and ultraviolet, and that white light is made up of a spectrum of many different colors.</p> <ul style="list-style-type: none"> • Earth in Space • TG: L07.Exts (pp92-93) • Global Warming and the Greenhouse Effect • TG: Ses03 (pp29-57) • Light • SG: L02-03 (pp20-39) • SG: L08-09 (pp82-107)
BENCHMARK / DESCRIPTOR	SC.7.P.10.2.	<p>Observe and explain that light can be reflected, refracted, and/or absorbed.</p> <ul style="list-style-type: none"> • Color Analyzers • TG: Act04 (pp31-37) • Earth in Space • SG: L07 (pp88-101) • TG: L07 (pp83-96) • Light • SG: L01 (pp2-19) • SG: L05-06 (pp48-67) • SG: L08 (pp82-91) • SG: L10-11 (pp108-131)

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		<ul style="list-style-type: none"> • SG: L14-20 (pp144-227) • SG: L24 (pp266-283) • SG: L26 (pp294-297) • TG: L01 (pp3-20) • TG: L03.Exts (p43) • TG: L05-06 (pp59-82) • TG: L08 (pp99-106) • TG: L14-20 (pp169-294) • TG: L26 (pp349-367)
BENCHMARK / DESCRIPTOR	SC.7.P.10.3.	<p>Recognize that light waves, sound waves, and other waves move at different speeds in different materials.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L12 (pp134-153) • TG: L12 (pp163-176) • TG: L14.Exts (pp193-194) • Invisible Universe • TG: Act01 (pp15-24) • Light • SG: L01 (pp2-19) • SG: L03 (pp32-39) • SG: L06-07 (pp58-81) • SG: L09 (pp92-107) • SG: L17-19 (pp186-223) • SG: L26 (pp294-297) • TG: L01 (pp3-20) • TG: L03 (pp37-48) • TG: L06 (pp73-82) • TG: L09 (pp107-118) • TG: L17-18 (pp205-246) • TG: L26 (pp349-367)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.P.	Physical Science
BENCHMARK / BIG IDEA	SC.7.P.11.	Energy Transfer and Transformations - A. Waves involve a transfer of energy without a transfer of matter. B. Water and sound waves transfer energy through a material. C. Light waves can travel through a vacuum and through matter. D. The Law of Conservation of Energy: Energy is conserved as it transfers from one object to another and from one form to another.
BENCHMARK / DESCRIPTOR	SC.7.P.11.1.	<p>Recognize that adding heat to or removing heat from a system may result in a temperature change and possibly a change of state.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03-05 (pp26-67) • SG: L20-22 (pp224-251) • TG: L03-05 (pp27-68) • TG: L20-22 (pp279-316) • Light • TG: L10.Exts (p124)

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		<ul style="list-style-type: none"> • Properties of Matter • SG: L05-08 (pp38-77) • SG: L13 (pp112-115) • SG: L18 (pp150-161) • TG: L05-08 (pp49-100) • TG: L11.Exts (p132) • TG: L13 (pp143-152) • TG: L18 (pp193-208) • TG: L22.Exts (p270)
BENCHMARK / DESCRIPTOR	SC.7.P.11.2.	<p>Investigate and describe the transformation of energy from one form to another.</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • SG: L01-02 (pp2-25) • SG: L08-10 (pp84-117) • SG: L12 (pp122-133) • SG: L15-19 (pp156-209) • TG: L01-02 (pp3-36) • TG: L08-10 (pp111-156) • TG: L12 (pp169-180) • TG: L15-19 (pp213-276) • Energy, Machines, and Motion • SG: L02-04 (pp12-35) • SG: L10 (pp92-97) • SG: L17 (pp164-173) • SG: L19-20 (pp188-213) • SG: L22 (pp226-236) • TG: L02-04 (pp23-46) • TG: L09-10 (pp99-130) • TG: L17 (pp203-216) • TG: L19-22 (pp229-254) • Light • SG: L02 (pp20-31) • SG: L07 (pp68-81) • SG: L26 (pp294-297) • TG: L02 (pp21-36) • TG: L26 (pp349-367) • Magnets and Motors • TG: L16 (pp99-102) • STC Book: Magnets and Motors: (pp45-46)
BENCHMARK / DESCRIPTOR	SC.7.P.11.3.	<p>Cite evidence to explain that energy cannot be created nor destroyed, only changed from one form to another.</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • SG: L01 (pp2-11) • SG: L12 (pp122-133) • TG: L01 (pp3-22) • TG: L12 (pp169-180)

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		<ul style="list-style-type: none"> • Energy, Machines, and Motion • SG: L19 (pp188-199) • TG: L19 (pp229-234)
BENCHMARK / DESCRIPTOR	SC.7.P.11.4.	<p>Observe and describe that heat flows in predictable ways, moving from warmer objects to cooler ones until they reach the same temperature.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03-04 (pp26-53) • TG: L03-04 (pp27-56) • Human Body Systems • TG: L13.Exts (p158)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.L.	Life Science
BENCHMARK / BIG IDEA	SC.7.L.15.	Diversity and Evolution of Living Organisms - A. The scientific theory of evolution is the organizing principle of life science. B. The scientific theory of evolution is supported by multiple forms of evidence. C. Natural Selection is a primary mechanism leading to change over time in organisms.
BENCHMARK / DESCRIPTOR	SC.7.L.15.2.	<p>Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.</p> <ul style="list-style-type: none"> • Life Through Time • TG: Ses05-07 (pp173-269) • Organisms-From Macro to Micro • SG: L13 (pp158-171) • TG: L13 (pp219-236)
BENCHMARK / DESCRIPTOR	SC.7.L.15.3.	<p>Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.</p> <ul style="list-style-type: none"> • Life Through Time • TG: Ses05-07 (pp173-269) • Organisms-From Macro to Micro • SG: L13 (pp158-171) • TG: L13 (pp219-236)
STANDARD / BODY OF KNOWLEDGE	FL.SC.7.L.	Life Science
BENCHMARK / BIG IDEA	SC.7.L.16.	Heredity and Reproduction - A. Reproduction is characteristic of living things and is essential for the survival of species. B. Genetic information is passed from generation to generation by DNA; DNA controls the traits of an organism. C. Changes in the DNA of an organism can cause changes in traits, and manipulation of DNA in organisms has led to genetically modified organisms.
BENCHMARK / DESCRIPTOR	SC.7.L.16.1.	Understand and explain that every organism requires a set of instructions that specifies its traits, that this hereditary information (DNA) contains genes located in the chromosomes of each cell, and that heredity is the passage of

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		<p>these instructions from one generation to another.</p> <ul style="list-style-type: none"> • Human Body Systems • TG: L04.Exts (p35) • Organisms-From Macro to Micro • SG: L08 (pp96-105) • SG: L18-19 (pp204-235) • TG: L02.Exts (p25) • TG: L08 (pp131-150) • TG: L18-19 (pp293-330) • STC Book: Experiments with Plants: (pp36-40), (pp44-46), (pp54-56), (pp60-61) • STC Book: Measuring Time: (pp50-52)
BENCHMARK / DESCRIPTOR	SC.7.L.16.2.	<p>Determine the probabilities for genotype and phenotype combinations using Punnett Squares and pedigrees.</p> <ul style="list-style-type: none"> • Organisms-From Macro to Micro • SG: L19 (pp216-235) • TG: L19 (pp303-330)
BENCHMARK / DESCRIPTOR	SC.7.L.16.3.	<p>Compare and contrast the general processes of sexual reproduction requiring meiosis and asexual reproduction requiring mitosis.</p> <ul style="list-style-type: none"> • Organisms-From Macro to Micro • SG: L03 (pp28-37) • SG: L09 (pp106-119) • SG: L12 (pp146-155) • SG: L14 (pp172-179) • SG: L17-19 (pp194-235) • TG: L03 (pp33-48) • TG: L09 (pp151-166) • TG: L12 (pp201-218) • TG: L14 (pp237-252) • TG: L17 (pp281-292) • TG: L19 (pp303-330)
BENCHMARK / DESCRIPTOR	SC.7.L.16.4.	<p>Recognize and explore the impact of biotechnology (cloning, genetic engineering, artificial selection) on the individual, society and the environment.</p> <ul style="list-style-type: none"> • Organisms-From Macro to Micro • SG: L05 (pp46-63) • TG: L09.Exts (p160) • TG: L19.Exts (pp317-318) • Properties of Matter • TG: L17.Exts (p185) • STC Book: Experiments with Plants: (pp11-13), (pp36-40), (pp44-46), (pp54-56), (pp60-61)

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STANDARD / BODY OF KNOWLEDGE	FL.SC.7.L.	Life Science
BENCHMARK / BIG IDEA	SC.7.L.17.	Interdependence - A. Plants and animals, including humans, interact with and depend upon each other and their environment to satisfy their basic needs. B. Both human activities and natural events can have major impacts on the environment. C. Energy flows from the sun through producers to consumers.
BENCHMARK / DESCRIPTOR	SC.7.L.17.1.	<p>Explain and illustrate the roles of and relationships among producers, consumers, and decomposers in the process of energy transfer in a food web.</p> <ul style="list-style-type: none"> • Earth in Space • TG: L07.Exts (pp92-93) • Light • TG: L11.Exts (p131)
BENCHMARK / DESCRIPTOR	SC.7.L.17.2.	<p>Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism.</p> <ul style="list-style-type: none"> • Environmental Detectives • TG: Act05 (pp113-141) • Experiments with Plants • TG: L01 (pp9-20) • TG: L06-07 (pp57- -70) • Organisms-From Macro to Micro • SG: L02 (pp12-27) • SG: L14 (pp172-179) • TG: L02 (pp15-32) • STC Book: Experiments with Plants: (pp30-33)
BENCHMARK / DESCRIPTOR	SC.7.L.17.3.	<p>Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.</p> <ul style="list-style-type: none"> • Organisms-From Macro to Micro • SG: L06 (pp64-81) • TG: L01.Exts (p12) • TG: L05.Exts (pp69-70) • TG: L10.Exts (pp175-176)

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Grade 8

STANDARD / BODY OF KNOWLEDGE	FL.SC.8.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.8.N.1.	<p>The Practice of Science - A: Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. B: The processes of science frequently do not correspond to the traditional portrayal of "the scientific method." C: Scientific argumentation is a necessary part of scientific inquiry and plays an important role in the generation and validation of scientific knowledge. D: Scientific knowledge is based on observation and inference; it is important to recognize that these are very different things. Not only does science require creativity in its methods and processes, but also in its questions and explanations.</p>
BENCHMARK / DESCRIPTOR	SC.8.N.1.1.	<p>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.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble-ology • TG: Act01-06 (pp5-44) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • TG: Exts (pp63-64) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11)

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		<ul style="list-style-type: none"> • SG: L03-05 (pp22-73) • SG: L09-11 (pp122-159) • SG: L13-14 (pp174-215) • SG: L18-20 (pp290-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L03-05 (pp21-72) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-308) • TG: L22 (pp311-326) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Fingerprinting • TG: Ses01-03 (pp7-25) • Global Warming and the Greenhouse Effect • TG: Ses01-08 (pp5-124) • Hot Water and Warm Homes from Sunlight • TG: Ses0-051 (pp7-41) • Human Body Systems • SG: L02-23 (pp8-195) • TG: L01-23 (pp3-276) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51)
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		<ul style="list-style-type: none"> • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.8.N.1.3.</p>	<p>Use phrases such as "results support" or "fail to support" in science, understanding that science does not offer conclusive 'proof' of a knowledge claim.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble-ology • TG: Act01-06 (pp5- -44) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7- -62) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L04 (pp42-53) • SG: L06 (pp68-79) • SG: L08 (pp96-101) • SG: L12 (pp134-153) • SG: L22-25 (pp240-282) • TG: L04 (pp45-56)

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		<ul style="list-style-type: none"> • TG: L06 (pp69-82) • TG: L08 (pp103-126) • TG: L12 (pp163-176) • TG: L22-25 (pp303-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-08 (pp15-208) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L04 (pp42-61) • SG: L09 (pp122-127) • SG: L14 (pp200-215) • SG: L16 (pp244-265) • SG: L22 (pp340-343) • TG: L04 (pp37-52) • TG: L09 (pp121-146) • TG: L14 (pp209-220) • TG: L16 (pp245-268) • TG: L22 (pp311-326) • Electrical Energy and Circuit Design • SG: L20 (pp210-213) • TG: L20 (pp277-290) • Energy, Machines, and Motion • SG: L07 (pp62-71) • TG: L04 (pp37-46) • TG: L06.Exts (pp68-69) • TG: L07 (pp75-84) • TG: L13 (pp157-166) • TG: L18-19 (pp217-234) • Fingerprinting • TG: Ses01-03 (pp7- -25) • Global Warming and the Greenhouse Effect • TG: Ses01-08 (pp5-124) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-02 (pp15-58) • TG: Act05-06 (pp101-131) • Microscopic Explorations • TG: Act01-10 (pp37-97) • Mystery Festival
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		<ul style="list-style-type: none"> • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L16 (pp130-139) • TG: L16 (pp169-178) • River Cutters • TG: Ses01-07 (pp21-72) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.8.N.1.4.</p>	<p>Explain how hypotheses are valuable if they lead to further investigations, even if they turn out not to be supported by the data.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L04 (pp42-53) • SG: L13-14 (pp154-169) • SG: L20 (pp224-231) • SG: L22-23 (pp240-263) • TG: L04 (pp45-56) • TG: L13-14 (pp177-196) • TG: L20 (pp279-292) • TG: L22-23 (pp303-328) • Earth in Space • SG: L06 (pp74-87) • SG: L08-09 (pp102-127) • SG: L19 (pp312-323) • TG: L06 (pp73-82) • TG: L08-09 (pp97-146)

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		<ul style="list-style-type: none"> • TG: L19 (pp287-292)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.8.N.1.6.</p>	<p>Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning, and the application of imagination in devising hypotheses, predictions, explanations and models to make sense of the collected evidence.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses01-08 (pp7-119) • Bubble-ology • TG: Act01 (pp5-9) • Color Analyzers • TG: Act01-04 (pp5-37) • TG: Exts (pp38-40) • Convection: A Current Event • TG: Ses01-03 (pp5-26) • TG: Exts (pp27-29) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • TG: Exts (pp63-64) • Chemical Reactions • TG: Part1 (pp9-14) • TG: Part2 (pp15-21) • TG: Exts (pp22-23) • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Dry Ice Investigations • TG: Act01-04 (pp19-129) • TG: Exts (pp131-132) • Environmental Detectives • TG: Act01-07 (pp15-202) • Earth, Moon, and Stars • TG: Act01-06 (pp3-52) • Earth in Space • SG: L01 (pp2-11) • SG: L04-06 (pp42-87) • SG: L09 (pp122-127) • SG: L11 (pp146-159) • SG: L13-14 (pp174-215) • SG: L18 (pp290-311) • SG: L20 (pp324-333) • SG: L22 (pp340-343) • TG: L01 (pp3-10) • TG: L04-06 (pp37-82) • TG: L09-11 (pp121-180) • TG: L13-14 (pp197-220) • TG: L18-20 (pp277-308)

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		<ul style="list-style-type: none"> • TG: L22 (pp311-326) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Fingerprinting • TG: Ses01-03 (pp7-25) • Global Warming and the Greenhouse Effect • TG: Ses01-08 (pp5-124) • Hot Water and Warm Homes from Sunlight • TG: Ses01-05 (pp7-41) • Human Body Systems • SG: L02-08 (pp8-65) • SG: L10-23 (pp76-195) • TG: L01.Exts (p7) • TG: L02-08 (pp11-102) • TG: L09.Exts (p107) • TG: L10-23 (pp113-276) • Invisible Universe • TG: Act01-05 (pp15-91) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act01-06 (pp15-131) • Light • SG: L01-26 (pp2-297) • TG: L01-26 (pp3-367) • Microscopic Explorations • TG: Act01-10 (pp37-97) • TG: Exts (p102) • Mystery Festival • TG: Ses01-05 (pp109-197) • Messages From Space • TG: Act01-05 (pp6-123) • Moons of Jupiter • TG: Act01-05 (pp7-64) • More Than Magnifiers • TG: Act01-04 (pp9-36) • Ocean Currents • TG: Act01-07 (pp9-140) • Of Cabbages and Chemistry • TG: Ses01-04 (pp9-46) • TG: Exts (pp49-51) • Oobleck: What Do Scientists Do? • TG: Ses01-04 (pp4-18) • TG: Exts (p19) • Only One Ocean • TG: Act01-03 (pp15-144) • Organisms-From Macro to Micro
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		<ul style="list-style-type: none"> • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Paper Towel Testing • TG: Ses01-04 (pp7-24) • TG: Exts (p25) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332) • River Cutters • TG: Ses01-07 (pp21-72) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses01-08 (pp15-113)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.8.N.2.	The Characteristics of Scientific Knowledge - A: Scientific knowledge is based on empirical evidence, and is appropriate for understanding the natural world, but it provides only a limited understanding of the supernatural, aesthetic, or other ways of knowing, such as art, philosophy, or religion. B: Scientific knowledge is durable and robust, but open to change. C: Because science is based on empirical evidence it strives for objectivity, but as it is a human endeavor the processes, methods, and knowledge of science include subjectivity, as well as creativity and discovery.
BENCHMARK / DESCRIPTOR	SC.8.N.2.1.	<p>Distinguish between scientific and pseudoscientific ideas.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L18 (pp200-209) • TG: L18 (pp257-264) • Dry Ice Investigations • TG: Act01 (pp19-47) • Electrical Energy and Circuit Design • SG: L02 (pp12-25) • SG: L20 (pp210-213) • TG: L02 (pp23-36) • TG: L20 (pp277-290) • Energy, Machines, and Motion • SG: L07 (pp62-71) • TG: L07 (pp75-84) • Human Body Systems • TG: L01.Exts (p7) • Organisms-From Macro to Micro • SG: L15 (pp180-187) • TG: L15 (pp253-266) • Properties of Matter • SG: L03 (pp24-29)

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		<ul style="list-style-type: none"> • TG: L03 (pp27-38)
BENCHMARK / DESCRIPTOR	SC.8.N.2.2.	<p>Discuss what characterizes science and its methods.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L18 (pp200-209) • TG: L18 (pp257-264) • Dry Ice Investigations T • G: Act01 (pp19-47) • Electrical Energy and Circuit Design • SG: L02 (pp12-25) • TG: L02 (pp23-36) • Human Body Systems • TG: L01.Exts (p7)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.8.N.3.	The Role of Theories, Laws, Hypotheses, and Models - The terms that describe examples of scientific knowledge, for example; "theory," "law," "hypothesis," and "model" have very specific meanings and functions within science.
BENCHMARK / DESCRIPTOR	SC.8.N.3.1.	<p>Select models useful in relating the results of their own investigations.</p> <p>SC.8.N.3.2 Explain why theories may be modified but are rarely discarded.</p> <ul style="list-style-type: none"> • Acid Rain • TG: Ses03-04 (pp39-71) • Crime Lab Chemistry • TG: Act01-03 (pp7-62) • Catastrophic Events • SG: L02 (pp12-25) • SG: L06 (pp68-79) • SG: L11-12 (pp120-153) • SG: L15 (pp170-189) • SG: L17 (pp194-197) • SG: L19-20 (pp210-231) • SG: L24-25 (pp264-282) • TG: L02 (pp17-26) • TG: L06 (pp69-82) • TG: L11-12 (pp149-176) • TG: L14.Exts (pp193-194) • TG: L15 (pp197-218) • TG: L17 (pp233-256) • TG: L19-20 (pp265-292) • TG: L23.Exts (pp325-326) • TG: L24-25 (pp329-372) • Earth, Moon, and Stars • TG: Act01 (pp3-8) • Earth in Space • SG: L02-07 (pp12-101) • SG: L09 (pp122-127)

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		<ul style="list-style-type: none"> • SG: L11-14 (pp146-215) • SG: L18 (pp290-311) • TG: L01.Exts (p10) • TG: L02-07 (pp11-96) • TG: L08.Exts (pp108-109) • TG: L09 (pp121-146) • TG: L11-14 (pp159-220) • TG: L16.Exts (p256) • TG: L17.Exts (pp275-276) • TG: L18 (pp277-286) • TG: L20.Exts (p297) • Electrical Energy and Circuit Design • SG: L04 (pp36-45) • SG: L06 (pp58-69) • SG: L09 (pp94-103) • SG: L24 (pp244-251) • TG: L04 (pp49-60) • TG: L06 (pp77-92) • TG: L09 (pp123-142) • TG: L24 (pp313-326) • Energy, Machines, and Motion • SG: L12-13 (pp108-129) • TG: L04 (pp37-46) • TG: L12-13 (pp147-166) • Global Warming and the Greenhouse Effect • TG: Ses02 (pp17-27) • Hot Water and Warm Homes from Sunlight • TG: Ses01-02 (pp7-16) • TG: Ses04 (pp33-37) • Human Body Systems • SG: L02 (pp8-13) • SG: L06-07 (pp40-59) • SG: L10 (pp76-89) • SG: L12 (pp98-109) • SG: L14 (pp120-129) • SG: L16 (pp138-143) • SG: L19 (pp160-167) • TG: L02 (pp11-18) • TG: L06-07 (pp57-80) • TG: L10 (pp113-130) • TG: L12 (pp137-152) • TG: L14 (pp159-172) • TG: L16 (pp183-190) • TG: L19 (pp219-234) • Life Through Time • TG: Ses01-07 (pp13-269) • Living with a Star • TG: Act02 (pp41-58) • Light • SG: L07 (pp68-81) • SG: L09 (pp92-107)
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		<ul style="list-style-type: none"> • SG: L17 (pp186-199) • SG: L19 (pp214-223) • TG: L07 (pp83-98) • TG: L16.Exts (p203) • TG: L17 (pp205-224) • TG: L19 (pp247-274) • Microscopic Explorations • TG: Act10 (pp93-97) • Messages From Space • TG: Act03 (pp46-87) • TG: Act05 (pp96-123) • Moons of Jupiter • TG: Act03 (pp31-39) • Organisms-From Macro to Micro • SG: L08 (pp96-105) • SG: L10 (pp120-131) • TG: L07.Exts (pp118-119) • TG: L08 (pp131-150) • TG: L10 (pp167-184) • TG: L17.Exts (pp287-288) • TG: L18.Exts (pp299-300) • Plate Tectonics • TG: Ses01-08 (pp21-129) • Properties of Matter • TG: L01.Exts (p9) • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L14.Exts (p157) • TG: L15.Exts (p166) • River Cutters • TG: Ses01-07 (pp21- -72) • TG: Exts (p73) • The Real Reasons for the Seasons • TG: Act02-03 (pp22-48) • TG: Act07 (pp73-79) • Stories in Stone • TG: Ses03 (pp33-45)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.8.N.4.	Science and Society - As tomorrows citizens, students should be able to identify issues about which society could provide input, formulate scientifically investigable questions about those issues, construct investigations of their questions, collect and evaluate data from their investigations, and develop scientific recommendations based upon their findings.
BENCHMARK / DESCRIPTOR	SC.8.N.4.1.	<p>Explain that science is one of the processes that can be used to inform decision making at the community, state, national, and international levels.</p> <ul style="list-style-type: none"> • Organisms-From Macro to Micro

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		<ul style="list-style-type: none"> TG: L07.Exts (pp118-119)
BENCHMARK / DESCRIPTOR	SC.8.N.4.2.	<p>Explain how political, social, and economic concerns can affect science, and vice versa.</p> <ul style="list-style-type: none"> Catastrophic Events SG: L09 (pp102-112) TG: L09 (pp127-142) Earth in Space SG: L10 (pp130-145) SG: L20 (pp324-333) TG: L10 (pp147-158) TG: L20 (pp293-308)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.8.E.5.	<p>Earth in Space and Time - The origin and eventual fate of the Universe still remains one of the greatest questions in science. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the planetary systems, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of the nature of the Universe.</p>
BENCHMARK / DESCRIPTOR	SC.8.E.5.1.	<p>Recognize that there are enormous distances between objects in space and apply our knowledge of light and space travel to understand this distance.</p> <ul style="list-style-type: none"> Catastrophic Events SG: L01 (pp2-11) TG: L01 (pp3-16) Earth in Space SG: L02 (pp12-21) SG: L07 (pp88-101) SG: L09-11 (pp122-159) SG: L13-17 (pp174-289) SG: L20 (pp324-333) SG: L22 (pp340-343) TG: L02 (pp11-20) TG: L04.Exts (pp45-46) TG: L05.Exts (p64) TG: L07 (pp83-96) TG: L09-11 (pp121-180) TG: L13-17 (pp197-276) TG: L20 (pp293-308) TG: L22 (pp311-326) Electrical Energy and Circuit Design TG: L19.Exts (pp275-276) Invisible Universe TG: Act04-05 (pp58-91) Living with a Star TG: Act03 (pp61-84) Light SG: L03 (pp32-39)

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		<ul style="list-style-type: none"> • SG: L16 (pp166-185) • Messages From Space • TG: Act01 (pp6-25) • TG: Act03 (pp46-87) • TG: Act05 (pp96-123) • Moons of Jupiter • TG: Act03-05 (pp31-64) • The Real Reasons for the Seasons • TG: Act03 (pp29-48)
BENCHMARK / DESCRIPTOR	SC.8.E.5.2.	<p>Recognize that the universe contains many billions of galaxies and that each galaxy contains many billions of stars.</p> <ul style="list-style-type: none"> • Earth in Space • SG: L02 (pp12-21) • Invisible Universe • TG: Act04 (pp58-77) • Messages From Space • TG: Act02 (pp27-45) • TG: Exts (p38)
BENCHMARK / DESCRIPTOR	SC.8.E.5.3.	<p>Distinguish the hierarchical relationships between planets and other astronomical bodies relative to solar system, galaxy, and universe, including distance, size, and composition.</p> <ul style="list-style-type: none"> • Earth in Space • SG: L02-03 (pp12-41) • SG: L06 (pp74-87) • TG: L02-03 (pp11-36) • TG: L06 (pp73-82) • TG: L16.Exts (p256) • Invisible Universe • TG: Act04-05 (pp58-91) • Messages From Space • TG: Act02-03 (pp27-87) • TG: Act05 (pp96-123)
BENCHMARK / DESCRIPTOR	SC.8.E.5.4.	<p>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.</p> <ul style="list-style-type: none"> • Earth, Moon, and Stars • TG: Act02 (pp9-16) • Earth in Space • SG: L02 (pp12-21) • SG: L05-06 (pp62-87) • SG: L14-16 (pp200-265) • SG: L22 (pp340-343) • TG: L02 (pp11-20) • TG: L05-06 (pp53-82)

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		<ul style="list-style-type: none"> • TG: L14-16 (pp209-268) • TG: L22 (pp311-326) • Energy, Machines, and Motion • TG: L05.Exts (pp53-54) • Organisms-From Macro to Micro • SG: L20 (pp236-243) • TG: L20 (pp331-350) • The Real Reasons for the Seasons • TG: Act04 (pp49-56)
BENCHMARK / DESCRIPTOR	SC.8.E.5.5.	<p>Describe and classify specific physical properties of stars: apparent magnitude (brightness), temperature (color), size, and luminosity (absolute brightness).</p> <ul style="list-style-type: none"> • Earth, Moon, and Stars • TG: Act05-06 (pp33-52) • Earth in Space • TG: L04 (pp37-52) • Invisible Universe • TG: Act04 (pp58-77) • Living with a Star • TG: Act01-06 (pp15-131) • Messages From Space • TG: Act02 (pp27-45) • TG: Exts (p38)
BENCHMARK / DESCRIPTOR	SC.8.E.5.6.	<p>Create models of solar properties including: rotation, structure of the Sun, convection, sunspots, solar flares, and prominences.</p> <ul style="list-style-type: none"> • Earth in Space • SG: L02 (pp12-21) • SG: L07-08 (pp88-121) • TG: L02 (pp11-20) • TG: L03.Exts (p33) • TG: L04.Exts (pp45-46) • TG: L06.Exts (p81) • TG: L07-09 (pp83-146) • TG: L11 (pp159-180) • Living with a Star • TG: Act01-02 (pp15-58) • TG: Act06 (pp113-131) • Light • SG: L02 (pp20-31) • Messages From Space • TG: Act03 (pp46-87)
BENCHMARK / DESCRIPTOR	SC.8.E.5.7.	<p>Compare and contrast the properties of objects in the 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.</p>

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		<ul style="list-style-type: none"> • Earth, Moon, and Stars • TG: Act02 (pp9-16) • Earth in Space • SG: L01-08 (pp2-121) • SG: L10-22 (pp130-343) • TG: L01-22 (pp3-326) • Energy, Machines, and Motion • TG: L05.Exts (pp53-54) • Living with a Star • TG: Act01-02 (pp15-58) • TG: Act06 (pp113-131) • Light • SG: L02 (pp20-31) • Messages From Space • TG: Act02-03 (pp27-87) • TG: Act05 (pp96-123) • Moons of Jupiter • TG: Act01-05 (pp7-64)
BENCHMARK / DESCRIPTOR	SC.8.E.5.8.	<p>Compare various historical models of the Solar System, including geocentric and heliocentric.</p> <ul style="list-style-type: none"> • Earth in Space • TG: L01 (pp3-10) • Properties of Matter • SG: L01 (pp2-13) • TG: L01.Exts (p9)
BENCHMARK / DESCRIPTOR	SC.8.E.5.9.	<p>Explain the impact of objects in space on each other including: 1. the Sun on the Earth including seasons and gravitational attraction 2. the Moon on the Earth, including phases, tides, and eclipses, and the relative position of each body.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03 (pp26-41) • SG: L07 (pp80-95) • TG: L01.Exts (pp10-11) • TG: L03 (pp27-44) • TG: L07 (pp83-102)) • Earth, Moon, and Stars • TG: Act03-04 (pp17-32) • Earth in Space • SG: L01-09 (pp2-127) • SG: L16 (pp244-265) • TG: L01-09 (pp3-146) • TG: L16 (pp245-268) • Invisible Universe • TG: Act04 (pp58-77) • Light • SG: L05 (pp48-57)

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		<ul style="list-style-type: none"> • TG: L05 (pp59-72) • Messages From Space • TG: Act03 (pp46-87) • TG: Act05 (pp96-123) • Organisms-From Macro to Micro • TG: L10.Exts (pp175-176) • The Real Reasons for the Seasons • TG: Act01-08 (pp17-88) • Stories in Stone • TG: Ses02 (pp23-31)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.8.E.5.10.</p>	<p>Assess how technology is essential to science for such purposes as access to outer space and other remote locations, sample collection, measurement, data collection and storage, computation, and communication of information.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03-04 (pp26-53) • SG: L11 (pp120-133) • SG: L14 (pp164-169) • SG: L16 (pp190-193) • TG: L03-04 (pp27-56) • TG: L11 (pp149-162) • TG: L14 (pp187-196) • TG: L16 (pp219-232) • TG: L23.Exts (pp325-326) • TG: L24.Exts (pp337-338) • Earth in Space • SG: L06 (pp74-87) • SG: L08 (pp102-121) • SG: L14 (pp200-215) • SG: L16 (pp244-265) • TG: L01.Exts (p10) • TG: L05.Exts (p64) • TG: L06 (pp73-82) • TG: L07.Exts (pp92-93) • TG: L08 (pp97-120) • TG: L13.Exts (p206) • TG: L16 (pp245-268) • TG: L21.Exts (p310) • Living with a Star • TG: Act03 (pp61-84) • Light • SG: L16 (pp166-185) • SG: L22 (pp244-251) • TG: L22.Exts (pp310-311) • Messages From Space • TG: Act01 (pp6-25) • Moons of Jupiter • TG: Act01 (pp7-17) • More Than Magnifiers

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		<ul style="list-style-type: none"> • TG: Act03 (pp23-28)
BENCHMARK / DESCRIPTOR	SC.8.E.5.11.	<p>Identify and compare characteristics of the electromagnetic spectrum such as wavelength, frequency, use, and hazards and recognize its application to an understanding of planetary images and satellite photographs.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02 (pp12-25) • TG: L02 (pp17-26) • Earth in Space • TG: L07 (pp83-96) • Energy, Machines, and Motion • SG: L19 (pp188-199) • TG: L19 (pp229-234) • Invisible Universe • TG: Act01-03 (pp15-57) • TG: Act05 (pp78-91) • Living with a Star • TG: Act02-04 (pp41-99) • Light • SG: L09-11 (pp92-131) • SG: L16 (pp166-185) • TG: L08.Exts (p105) • TG: L09-10 (pp107-126) • TG: L17.Exts (p216)
BENCHMARK / DESCRIPTOR	SC.8.E.5.12.	<p>Summarize the effects of space exploration on the economy and culture of Florida.</p> <ul style="list-style-type: none"> • Earth in Space • SG: L09-10 (pp122-145) • SG: L13-17 (pp174-289) • TG: L09-10 (pp121-158) • TG: L13-17 (pp197-276) • Electrical Energy and Circuit Design • TG: L19.Exts (pp275-276) • Energy, Machines, and Motion • SG: L19 (pp188-199) • Living with a Star • TG: Act03 (pp61-84) • Messages From Space • TG: Act05 (pp96-123) • Moons of Jupiter • TG: Act04-05 (pp41-64)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.P.	Physical Science
BENCHMARK / BIG IDEA	SC.8.P.8.	Properties of Matter - A. All objects and substances in the world are made of matter. Matter has two fundamental properties: matter takes up space and

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		<p>matter has mass which gives it inertia. B. Objects and substances can be classified by their physical and chemical properties. Mass is the amount of matter (or "stuff") in an object. Weight, on the other hand, is the measure of force of attraction (gravitational force) between an object and Earth. The concepts of mass and weight are complicated and potentially confusing to elementary students. Hence, the more familiar term of "weight" is recommended for use to stand for both mass and weight in grades K-5. By grades 6-8, students are expected to understand the distinction between mass and weight, and use them appropriately.</p>
BENCHMARK / DESCRIPTOR	SC.8.P.8.1.	<p>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.</p> <ul style="list-style-type: none"> • Properties of Matter • TG: L02.Exts (p21) • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L14.Exts (p157) • TG: L15.Exts (p166)
BENCHMARK / DESCRIPTOR	SC.8.P.8.2.	<p>Differentiate between weight and mass recognizing that weight is the amount of gravitational pull on an object and is distinct from, though proportional to, mass.</p> <ul style="list-style-type: none"> • Earth in Space • SG: L14-15 (pp200-243) • TG: L14-15 (pp209-244) • Energy, Machines, and Motion • SG: L05-06 (pp36-61) • TG: L05-06 (pp47-74) • TG: L07.Exts (p83) • TG: L18.Exts (p224) • TG: L21.Exts (p245) • Properties of Matter • SG: L01-02 (pp2-23) • SG: L04 (pp30-37) • SG: L08-09 (pp74-83) • SG: L14 (pp116-121) • SG: L25-26 (pp224-235) • TG: L01-02 (pp3-26) • TG: L04 (pp39-48) • TG: L08-09 (pp91-112) • TG: L14 (pp153-160) • TG: L25-26 (pp303-332)
BENCHMARK / DESCRIPTOR	SC.8.P.8.3.	<p>Explore and describe the densities of various materials through measurement of their masses and volumes.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L04 (pp42-53) • TG: L04 (pp45-56)

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		<ul style="list-style-type: none"> • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Ocean Currents • TG: Act03-05 (pp47-93) • Properties of Matter • SG: L01-03 (pp2-29) • SG: L05 (pp38-55) • SG: L09 (pp78-83) • SG: L19 (pp162-167) • SG: L26 (pp230-235) • TG: L01-03 (pp3-38) • TG: L04.Exts (p45) • TG: L05 (pp49-64) • TG: L09 (pp101-112) • TG: L19 (pp209-226) • TG: L26 (pp313-332)
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.8.P.8.4.</p>	<p>Classify and compare substances on the basis of 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 are independent of the amount of the sample.</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L04 (pp42-53) • TG: L04 (pp45-56) • Discovering Density • TG: Ses01-05 (pp5-46) • TG: Exts (p48) • Electrical Energy and Circuit Design • SG: L06-08 (pp58-93) • TG: L06-08 (pp77-122) • TG: L09.Exts (pp134-135) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Human Body Systems • TG: L07.Exts (pp74-75) • Light • SG: L13 (pp138-141) • SG: L15 (pp154-165) • TG: L03.Exts (p43) • TG: L13 (pp153-168) • TG: L15 (pp181-194) • Microscopic Explorations • TG: Act03-04 (pp49-59) • Ocean Currents • TG: Act03-05 (pp47-93) • Properties of Matter • SG: L01-03 (pp2-29)

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		<ul style="list-style-type: none"> • SG: L05 (pp38-55) • SG: L09 (pp78-83) • SG: L11-12 (pp98-111) • SG: L19 (pp162-167) • SG: L22 (pp198-207) • SG: L26 (pp230-235) • TG: L01-03 (pp3-38) • TG: L04.Exts (p45) • TG: L05 (pp49-64) • TG: L09 (pp101-112) • TG: L11-12 (pp125-142) • TG: L19 (pp209-226) • TG: L22 (pp263-274) • TG: L26 (pp313-332)
BENCHMARK / DESCRIPTOR	SC.8.P.8.5.	<p>Recognize that there are a finite number of 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.</p> <ul style="list-style-type: none"> • Light • TG: L10.Exts (p124) • Properties of Matter • SG: L06-07 (pp56-73) • SG: L10-11 (pp86-105) • SG: L13 (pp112-115) • SG: L15 (pp122-129) • SG: L20-22 (pp170-207) • SG: L25 (pp224-229) • TG: L06-07 (pp65-90) • TG: L10-11 (pp113-134) • TG: L13 (pp143-152) • TG: L15 (pp161-168) • TG: L20-22 (pp227-274) • TG: L23.Exts (p284) • TG: L25 (pp303-312)
BENCHMARK / DESCRIPTOR	SC.8.P.8.6.	<p>Recognize that elements are grouped in the periodic table according to similarities of their properties.</p> <ul style="list-style-type: none"> • Properties of Matter • SG: L21 (pp186-197) • TG: L21 (pp241-262)
BENCHMARK / DESCRIPTOR	SC.8.P.8.7.	<p>Explore the scientific theory of atoms (also known as atomic theory) by recognizing that atoms are the smallest unit of an element and are composed of sub-atomic particles (electrons surrounding a nucleus containing protons and neutrons).</p> <ul style="list-style-type: none"> • Properties of Matter

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		<ul style="list-style-type: none"> TG: L21.Exts (p251)
BENCHMARK / DESCRIPTOR	SC.8.P.8.8.	<p>Identify basic examples of and compare and classify the properties of compounds, including acids, bases, and salts.</p> <ul style="list-style-type: none"> Acid Rain TG: Ses01-02 (pp7-38) TG: Exts (pp120-122) Of Cabbages and Chemistry TG: Ses01-04 (pp9-46) TG: Exts (pp49-51)
BENCHMARK / DESCRIPTOR	SC.8.P.8.9.	<p>Distinguish among mixtures (including solutions) and pure substances.</p> <ul style="list-style-type: none"> Bubble-ology TG: Act01-04 (pp5-32) TG: Act06 (pp41-44) Crime Lab Chemistry TG: Act01-03 (pp7-62) TG: Exts (pp63-64) Catastrophic Events SG: L22 (pp240-251) TG: L22 (pp303-316) Light TG: L10.Exts (p124) Properties of Matter SG: L01 (pp2-13) SG: L11-15 (pp98-129) SG: L17-22 (pp140-207) TG: L01 (pp3-14) TG: L11-15 (pp125-168) TG: L16.Exts (p178) TG: L17-22 (pp179-274)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.P.	Physical Science
BENCHMARK / BIG IDEA	SC.8.P.9.	Changes in Matter - A. Matter can undergo a variety of changes. B. When matter is changed physically, generally no changes occur in the structure of the atoms or molecules composing the matter. C. When matter changes chemically, a rearrangement of bonds between the atoms occurs. This results in new substances with new properties.
BENCHMARK / DESCRIPTOR	SC.8.P.9.1.	<p>Explore the Law of Conservation of Mass by demonstrating and concluding that mass is conserved when substances undergo physical and chemical changes.</p> <ul style="list-style-type: none"> Properties of Matter SG: L08 (pp74-77) SG: L14 (pp116-121) SG: L25 (pp224-229) TG: L08 (pp91-100)

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		<ul style="list-style-type: none"> • TG: L14 (pp153-160) • TG: L25 (pp303-312)
BENCHMARK / DESCRIPTOR	SC.8.P.9.2.	<p>Differentiate between physical changes and chemical changes.</p> <ul style="list-style-type: none"> • Bubble-ology • TG: Act02-03 (pp11-27) • TG: Act06 (pp41-44) • Of Cabbages and Chemistry • TG: Ses01-02 (pp9-28) • TG: Ses04 (pp41-46) • Properties of Matter • SG: L06 (pp56-63) • SG: L24 (pp218-223) • TG: L06 (pp65-78) • TG: L24 (pp295-302)
BENCHMARK / DESCRIPTOR	SC.8.P.9.3.	<p>Investigate and describe how temperature influences chemical changes.</p> <ul style="list-style-type: none"> • Chemical Reactions • TG: Part2 (pp15-21) • Catastrophic Events • SG: L22 (pp240-251) • TG: L19.Exts (pp274-275) • TG: L22 (pp303-316) • Properties of Matter • SG: L23 (pp208-217) • TG: L22.Exts (p270) • TG: L23 (pp275-294)
STANDARD / BODY OF KNOWLEDGE	FL.SC.8.L.	Life Science
BENCHMARK / BIG IDEA	SC.8.L.18.	Matter and Energy Transformations - A. Living things all share basic needs for life. B. Living organisms acquire the energy they need for life processes through various metabolic pathways (photosynthesis and cellular respiration). C. Matter and energy are recycled through cycles such as the carbon cycle.
BENCHMARK / DESCRIPTOR	SC.8.L.18.1.	<p>Describe and investigate the process of photosynthesis, such as the roles of light, carbon dioxide, water and chlorophyll; production of food; release of oxygen.</p> <ul style="list-style-type: none"> • Light • SG: L11 (pp116-131) • TG: L11.Exts (p131) • Organisms-From Macro to Micro • SG: L07 (pp82-93) • SG: L10 (pp120-131) • TG: L07 (pp105-130) • TG: L10 (pp167-184)

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BENCHMARK / DESCRIPTOR	SC.8.L.18.2.	Describe and investigate how cellular respiration breaks down food to provide energy and releases carbon dioxide. <ul style="list-style-type: none">• Human Body Systems• SG: L12-13 (pp98-119)• TG: L12-13 (pp137-158)
BENCHMARK / DESCRIPTOR	SC.8.L.18.4.	Cite evidence that living systems follow the Laws of Conservation of Mass and Energy. <ul style="list-style-type: none">• Light• TG: L11.Exts (p131)

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