

# Carolina™ Curriculum Correlation to



## Florida Next Generation Sunshine State Standards Science Grades K-5

**CAROLINA**  
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# Carolina™ Curriculum Correlation to Florida Next Generation Sunshine State Standards – Science Grades K-5

This document is an alignment of The STC PROGRAM™, GEMS Kits®, GEMS® Space Science for Grades 3-5 and Building Blocks of Science® units with Florida Next Generation Sunshine State Standards for Science, grades K–5. 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.



**GEMS® Space Science for Grades 3-5** is a research-based science curriculum that teaches fundamental concepts in space science.



**Building Blocks of Science®** is a K-5 supplementary science curriculum that can be used as stand-alone instruction.

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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## Kindergarten

STANDARD / BODY OF KNOWLEDGE	FL.SC.K.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.K.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.K.N.1.1.	<p>Collaborate with a partner to collect information.</p> <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01-05 (pp7-73)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-3)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 01 (pp 1-3)</li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> <li>• <b>Elephants and Their Young</b></li> <li>• TG: Act01-04 (pp1-65)</li> <li>• <b>Hide a Butterfly</b></li> <li>• TG: Ses01-03 (pp3-26)</li> <li>• <b>Ladybugs</b></li> <li>• TG: Act01-05 (pp13-71)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L02-16 (pp11-178)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act01-04 (pp5-45)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act04 (pp49-56)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Terrarium Habitats</li> <li>• TG: Act01-05 (pp5-48)</li> <li>• Tree Homes</li> <li>• TG: Act01-06 (pp15-68)</li> <li>• Weather</li> <li>• TG: L01-16 (pp3-148)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.K.N.1.2.</p>	<p>Make observations of the natural world and know that they are descriptors collected using the five senses.</p> <ul style="list-style-type: none"> <li>• Ant Homes Under the Ground</li> <li>• TG: Act01 (pp7-13)</li> <li>• TG: Act03-05 (pp29-73)</li> <li>• Bubble Festival</li> <li>• TG: Act01-12 (pp54-124)</li> <li>• Buzzing a Hive</li> <li>• TG: Les01-06 (pp5-66)</li> <li>• Building Blocks of Science: Light</li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-3)</li> <li>• Building Blocks of Science: Sky Watchers</li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• Building Blocks of Science: Understanding My Body</li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• Comparing and Measuring</li> <li>• TG: L01-17 (pp3-120)</li> <li>• Eggs, Eggs, Everywhere</li> <li>• TG: Act01-04 (pp5-47)</li> <li>• Elephants and Their Young</li> <li>• TG: Act01-04 (pp1-65)</li> <li>• Hide a Butterfly</li> <li>• TG: Ses01-03 (pp3-26)</li> <li>• Investigating Artifacts</li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• Ladybugs</li> <li>• TG: Act01-05 (pp13-71)</li> <li>• Mother Opossum and Her Babies</li> <li>• TG: Act01-03 (pp7-62)</li> <li>• Organisms</li> <li>• TG: L01.Exts (p6)</li> <li>• TG: L02-14 (pp11-154)</li> <li>• TG: L15.Exts (pp159-160)</li> <li>• TG: L16 (pp169-178)</li> <li>• Penguins and Their Young</li> <li>• TG: Act01-04 (pp5-45)</li> <li>• Sifting Through Science</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act01-04 (pp7-56)</li> <li>• Solids and Liquids</li> <li>• TG: L01-16 (pp3-136)</li> <li>• Terrarium Habitats</li> <li>• TG: Act01-05 (pp5-48)</li> <li>• Tree Homes</li> <li>• TG: Act01-06 (pp15-68)</li> <li>• Weather</li> <li>• TG: L01-15 (pp3-140)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.K.N.1.3.</p>	<p>Keep records as appropriate -- such as pictorial records -- of investigations conducted.</p> <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01-05 (pp7-73)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> <li>• <b>Elephants and Their Young</b></li> <li>• TG: Act01-04 (pp1-65)</li> <li>• <b>Hide a Butterfly</b></li> <li>• TG: Ses01-03 (pp3-26)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Ladybugs</b></li> <li>• TG: Act01-05 (pp13-71)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L02-14 (pp11-154)</li> <li>• TG: L16 (pp169-178)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act01-04 (pp5-45)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Solids and Liquids</li> <li>• TG: L01-16 (pp3-136)</li> <li>• Terrarium Habitats</li> <li>• TG: Act01-05 (pp5-48)</li> <li>• Tree Homes</li> <li>• TG: Act01-06 (pp15-68)</li> <li>• Weather</li> <li>• TG: L01-13 (pp3-128)</li> <li>• TG: L15.Exts (p137)</li> <li>• TG: L16 (pp141-148)</li> <li>• TG: App-B (pp153-167)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.K.N.1.4.</p>	<p>Observe and create a visual representation of an object which includes its major features.</p> <ul style="list-style-type: none"> <li>• Bubble Festival</li> <li>• TG: Act04 (pp74-79)</li> <li>• Comparing and Measuring</li> <li>• TG: L02 (pp11-16)</li> <li>• Ladybugs</li> <li>• TG: Act04 (pp53-63)</li> <li>• Organisms</li> <li>• TG: L01-02 (pp3-20)</li> <li>• TG: L04-05 (pp37-64)</li> <li>• TG: L08-10 (pp87-118)</li> <li>• TG: L15.Exts (pp159-160)</li> <li>• TG: L16-17 (pp169-182)</li> <li>• Solids and Liquids</li> <li>• TG: L01.Exts (pp7-8)</li> <li>• TG: L03-04 (pp19-40)</li> <li>• TG: L05.Exts (pp43-45)</li> <li>• TG: L06 (pp47-54)</li> <li>• TG: L16 (pp131-136)</li> <li>• Tree Homes</li> <li>• TG: Act04-05 (pp41-63)</li> <li>• Weather</li> <li>• TG: L03.Exts (p29)</li> <li>• TG: L11 (pp101-112)</li> <li>• TG: L13 (pp123-128)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.K.N.1.5.</p>	<p>Recognize that learning can come from careful observation.</p> <ul style="list-style-type: none"> <li>• Ant Homes Under the Ground</li> <li>• TG: Act01 (pp7-13)</li> <li>• TG: Act03-05 (pp29-73)</li> <li>• Bubble Festival</li> <li>• TG: Act01-12 (pp54-124)</li> <li>• Buzzing a Hive</li> <li>• TG: Les01-06 (pp5-66)</li> <li>• Building Blocks of Science: Light</li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-3)</li> <li>• Building Blocks of Science: Sky Watchers</li> <li>• TG: Act 02 (pp 1-6)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> <li>• <b>Elephants and Their Young</b></li> <li>• TG: Act01-04 (pp1-65)</li> <li>• <b>Hide a Butterfly</b></li> <li>• TG: Ses01-03 (pp3-26)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Ladybugs</b></li> <li>• TG: Act01-05 (pp13-71)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L01.Exts (p6)</li> <li>• TG: L02-14 (pp11-154)</li> <li>• TG: L15.Exts (pp159-160)</li> <li>• TG: L16 (pp169-178)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act01-04 (pp5-45)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act01-06 (pp15-68)</li> <li>• <b>Weather</b></li> <li>• TG: L01-15 (pp3-140)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.K.E.</b>	<b>Earth and Space Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.K.E.5.</b>	Earth in Space and Time - Humans continue to explore Earth's place in space. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the Solar System, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of our Solar System.
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.K.E.5.2.</b>	<p>Recognize the repeating pattern of day and night.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> </ul>

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BENCHMARK / DESCRIPTOR	SC.K.E.5.3.	Recognize that the Sun can only be seen in the daytime. <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 01 (pp 1-3)</li> <li>• TG: Act 02 (pp 1-6)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.K.E.5.4.	Observe that sometimes the Moon can be seen at night and sometimes during the day. <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 01 (pp 1-3)</li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.K.P.	Physical Science
BENCHMARK / BIG IDEA	SC.K.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 matter has mass. 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.
BENCHMARK / DESCRIPTOR	SC.K.P.8.1.	Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light) and texture. <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-03 (pp54-73)</li> <li>• TG: Act05 (pp80-85)</li> <li>• TG: Act09 (pp102-107)</li> <li>• TG: Act11 (pp114-118)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01.Exts (pp7-8)</li> <li>• TG: L02-17 (pp11-140)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.K.P.	Physical Science
BENCHMARK / BIG IDEA	SC.K.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.K.P.12.1.	Investigate that things move in different ways, such as fast, slow, etc. <ul style="list-style-type: none"> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act04 (pp41-47)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L03-04 (pp19-40)</li> <li>• TG: L05.Exts (pp43-45)</li> <li>• TG: L06.Exts (pp51-52)</li> <li>• TG: L09 (pp69-80)</li> <li>•</li> </ul>

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STANDARD / BODY OF KNOWLEDGE	FL.SC.K.P.	Physical Science
BENCHMARK / BIG IDEA	SC.K.P.13.	Forces and <b>Changes</b> 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.K.P.13.1.	Observe that a push or a pull can change the way an object is moving. <ul style="list-style-type: none"> <li>• <b>Solids and Liquids</b></li> <li>• TG: L04 (pp29-40)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.K.L.	Life Science
BENCHMARK / BIG IDEA	SC.K.L.14.	Organization and Development of Living <b>Organisms</b> - A. All plants and animals, including humans, are alike in some ways and different in others. B. All plants and animals, including humans, have internal parts and external structures that function to keep them alive and help them grow and reproduce. C. Humans can better understand the natural world through careful observation.
BENCHMARK / DESCRIPTOR	SC.K.L.14.1.	Recognize the five senses and related body parts. <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01 (pp7-29)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L05.Exts (pp43-45)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.K.L.14.2.	Recognize that some books and other media portray animals and plants with characteristics and behaviors they do not have in real life. <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01-05 (pp7-73)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-05 (pp5-59)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L12.Exts (p84)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01 (pp5-15)</li> <li>• TG: Act03-04 (pp31-47)</li> <li>• <b>Ladybugs</b></li> <li>• TG: Act01 (pp13-31)</li> <li>• TG: Act05 (pp65-71)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01 (pp7-29)</li> <li>• TG: Act03 (pp47-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L01 (pp3-10)</li> <li>• TG: L04 (pp37-52)</li> <li>• TG: L06 (pp65-74)</li> <li>• TG: L14-17 (pp149-182)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act02-03 (pp15-37)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act03-05 (pp23-48)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Tree Homes</li> <li>• TG: Act02-06 (pp25-68)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.K.L.14.3.</p>	<p>Observe plants and animals, describe how they are alike and how they are different in the way they look and in the things they do.</p> <ul style="list-style-type: none"> <li>• Ant Homes Under the Ground</li> <li>• TG: Act01-05 (pp7-73)</li> <li>• Buzzing a Hive</li> <li>• TG: Les01-06 (pp5-66)</li> <li>• Building Blocks of Science: Understanding My Body</li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• Comparing and Measuring</li> <li>• TG: L01-04 (pp3-30)</li> <li>• TG: L12 (pp81-86)</li> <li>• TG: L17 (pp117-120)</li> <li>• Eggs, Eggs, Everywhere</li> <li>• TG: Act01 (pp5-15)</li> <li>• TG: Act03-04 (pp31-47)</li> <li>• Elephants and Their Young</li> <li>• TG: Act01-04 (pp1-65)</li> <li>• Hide a Butterfly</li> <li>• TG: Ses01-03 (pp3-26)</li> <li>• Ladybugs</li> <li>• TG: Act01 (pp13-31)</li> <li>• TG: Act05 (pp65-71)</li> <li>• Mother Opossum and Her Babies</li> <li>• TG: Act01-03 (pp7-62)</li> <li>• Organisms</li> <li>• TG: L01-17 (pp3-182)</li> <li>• Penguins and Their Young</li> <li>• TG: Act02-04 (pp15-45)</li> <li>• Solids and Liquids</li> <li>• TG: L01.Exts (pp7-8)</li> <li>• Terrarium Habitats</li> <li>• TG: Act02-05 (pp15-48)</li> <li>• Tree Homes</li> <li>• TG: Act02-06 (pp25-68)</li> </ul>

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## Grade 1

STANDARD / BODY OF KNOWLEDGE	FL.SC.1.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.1.N.1.	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.
BENCHMARK / DESCRIPTOR	SC.1.N.1.1.	<p>Raise questions about the natural world, investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.</p> <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01-05 (pp7-73)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 01 (pp 1-3)</li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-16 (pp3-116)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> <li>• <b>Elephants and Their Young</b></li> <li>• TG: Act01-04 (pp1-65)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Ladybugs</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act01-05 (pp13-71)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L01-17 (pp3-182)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act01-04 (pp5-45)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Soils</b></li> <li>• TG: L01-17 (pp3-172)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-17 (pp3-140)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act01-06 (pp15-68)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>Weather</b></li> <li>• TG: L01-17 (pp3-150)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.1.N.1.2.</b></p>	<p>Using the five senses as tools, make careful observations, describe objects in terms of number, shape, texture, size, weight, color, and motion, and compare their observations with others.</p> <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01 (pp7-13)</li> <li>• TG: Act03-05 (pp29-73)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-3)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> <li>• <b>Elephants and Their Young</b></li> <li>• TG: Act01-04 (pp1-65)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Ladybugs</b></li> <li>• TG: Act01-05 (pp13-71)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L01.Exts (p6)</li> <li>• TG: L02-14 (pp11-154)</li> <li>• TG: L15.Exts (pp159-160)</li> <li>• TG: L16 (pp169-178)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act01-04 (pp5-45)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Soils</b></li> <li>• TG: L01-16 (pp3-168)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act01-06 (pp15-68)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>Weather</b></li> <li>• TG: L01-15 (pp3-140)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.1.N.1.3.</b></p>	<p>Keep records as appropriate - such as pictorial and written records - of investigations conducted.</p> <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01-05 (pp7-73)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> <li>• <b>Elephants and Their Young</b></li> <li>• TG: Act01-04 (pp1-65)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Ladybugs</b></li> <li>• TG: Act01-05 (pp13-71)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Mother Opossum and Her Babies</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Organisms</b></li> <li>• TG: L02-14 (pp11-154)</li> <li>• TG: L16 (pp169-178)</li> <li>• <b>Penguins and Their Young</b></li> <li>• TG: Act01-04 (pp5-45)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act01-06 (pp15-68)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L02 (pp11-18)</li> <li>• TG: L13 (pp81-84)</li> <li>• <b>Weather</b></li> <li>• TG: L01-13 (pp3-128)</li> <li>• TG: L15.Exts (p137)</li> <li>• TG: L16 (pp141-148)</li> <li>• TG: App-B (pp153-167)</li> </ul>
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BENCHMARK / DESCRIPTOR	SC.1.N.1.4.	<p>Ask "how do you know?" in appropriate situations.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-04 (pp54-79)</li> <li>• TG: Act06-12 (pp86-124)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-16 (pp3-116)</li> <li>• <b>Organisms</b></li> <li>• TG: L01-17 (pp3-182)</li> <li>• <b>Soils</b></li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> <li>• <b>Weather</b></li> <li>• TG: L01-16 (pp3-148)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.1.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.1.E.5.	Earth in Space and Time - Humans continue to explore Earth's place in space. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the Solar System, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of our Solar System.
BENCHMARK / DESCRIPTOR	SC.1.E.5.4.	<p>Identify the beneficial and harmful properties of the Sun.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 03 (pp 1-6)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.1.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.1.E.6.	Earth Structures - Humans continue to explore the composition and structure of the surface of the Earth. External sources of energy have continuously altered the features of Earth by means of both constructive and destructive forces. All

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		life, including human civilization, is dependent on Earth's water and natural resources.
BENCHMARK / DESCRIPTOR	SC.1.E.6.2.	Describe the need for water and how to be safe around water. <ul style="list-style-type: none"> <li>• <b>Balancing and Weighing</b></li> <li>• TG: Sec3-Safety (pp9-12)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: Sec3-Safety (pp8-11)</li> <li>• <b>Organisms</b></li> <li>• TG: Sec3-Safety (pp19-24)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: Sec3-Safety (pp9-18)</li> <li>• <b>Weather</b></li> <li>• TG: L02.Exts (pp15-16)</li> <li>• TG: Sec3-Safety (pp9-12)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.1.P.	Physical Science
BENCHMARK / BIG IDEA	SC.1.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 matter has mass. 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.
BENCHMARK / DESCRIPTOR	SC.1.P.8.1.	Sort objects by observable properties, such as size, shape, color, temperature (hot or cold), weight (heavy or light), texture, and whether objects sink or float. <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01-05 (pp7-73)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01 (pp5-13)</li> <li>• TG: Les03 (pp27-37)</li> <li>• TG: Les05-06 (pp55-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L03.Exts (p20)</li> <li>• TG: L08.Exts (p67)</li> <li>• TG: L09.Exts (p76)</li> <li>• TG: L10.Exts (pp84-85)</li> <li>• TG: L11.Exts (p94)</li> <li>• TG: L12 (pp101-106)</li> <li>• TG: L13.Exts (pp110-111)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• <b>Changes</b></li> <li>• TG: L01.Exts (pp10-11)</li> <li>• TG: L06.Exts (pp67-69)</li> <li>• TG: L13.Exts (p123)</li> <li>• TG: L14.Exts (p134)</li> <li>• <b>Eggs, Eggs, Everywhere</b></li> <li>• TG: Act01-04 (pp5-47)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Elephants and Their Young</li> <li>• TG: Act01-04 (pp1-65)</li> <li>• Investigating Artifacts</li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• Involving Dissolving</li> <li>• TG: Act01-04 (pp5-37)</li> <li>• Ladybugs</li> <li>• TG: Act01-05 (pp13-71)</li> <li>• Liquid Explorations</li> <li>• TG: Act01-05 (pp5-49)</li> <li>• Mother Opossum and Her Babies</li> <li>• TG: Act02-03 (pp31-62)</li> <li>• Penguins and Their Young</li> <li>• TG: Act01-04 (pp5-45)</li> <li>• Secret Formulas</li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• Sifting Through Science</li> <li>• TG: Act01-04 (pp7-56)</li> <li>• Solids and Liquids</li> <li>• TG: L01.Exts (pp7-8)</li> <li>• TG: L02-17 (pp11-140)</li> <li>• Terrarium Habitats</li> <li>• TG: Act01-05 (pp5-48)</li> <li>• Tree Homes</li> <li>• TG: Act01-06 (pp15-68)</li> <li>• Weather</li> <li>• TG: L02 (pp11-24)</li> <li>• TG: L07.Exts (p67)</li> <li>• TG: L09.Exts (pp86-87)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.1.P.	Physical Science
BENCHMARK / BIG IDEA	SC.1.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.1.P.12.1.	<p>Demonstrate and describe the various ways that objects can move, such as in a straight line, zigzag, back-and-forth, round-and-round, fast, and slow.</p> <ul style="list-style-type: none"> <li>• Eggs, Eggs, Everywhere</li> <li>• TG: Act04 (pp41-47)</li> <li>• Solids and Liquids</li> <li>• TG: L03-04 (pp19-40)</li> <li>• TG: L05.Exts (pp43-45)</li> <li>• TG: L06.Exts (pp51-52)</li> <li>• TG: L09 (pp69-80)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.1.P.	Physical Science
BENCHMARK / BIG IDEA	SC.1.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.1.P.13.1.	Demonstrate that the way to change the motion of an object is by applying a

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		<p>push or a pull.</p> <ul style="list-style-type: none"> <li>• Solids and Liquids</li> <li>• TG: L04 (pp29-40)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.1.L.</b>	<b>Life Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.1.L.14.</b>	<b>Organization and Development of Living Organisms - A. All plants and animals, including humans, are alike in some ways and different in others. B. All plants and animals, including humans, have internal parts and external structures that function to keep them alive and help them grow and reproduce. C. Humans can better understand the natural world through careful observation.</b>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.1.L.14.1.</b>	<p>Make observations of living things and their environment using the five senses.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• <b>Organisms</b></li> <li>• TG: L02 (pp11-20)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act01 (pp15-23)</li> </ul>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.1.L.14.2.</b>	<p>Identify the major parts of plants, including stem, roots, leaves, and flowers.</p> <ul style="list-style-type: none"> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les02 (pp15-25)</li> <li>• <b>Organisms</b></li> <li>• TG: L13 (pp135-148)</li> <li>• TG: L15 (pp155-168)</li> <li>• TG: L17 (pp179-182)</li> <li>• <b>Soils</b></li> <li>• TG: L10 (pp97-108)</li> <li>• TG: L16.Exts (pp164-166)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act01 (pp15-23)</li> </ul>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.1.L.14.3.</b>	<p>Differentiate between living and nonliving things.</p> <ul style="list-style-type: none"> <li>• <b>Organisms</b></li> <li>• TG: L01 (pp3-10)</li> <li>• TG: L15-17 (pp155-182)</li> <li>• <b>Soils</b></li> <li>• TG: L01-10 (pp3-108)</li> <li>• TG: L13 (pp125-138)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L10 (pp63-68)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.1.L.</b>	<b>Life Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.1.L.17.</b>	<b>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.</b>

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<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.1.L.17.1.</b>	<p>Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.</p> <ul style="list-style-type: none"> <li>• <b>Ant Homes Under the Ground</b></li> <li>• TG: Act01 (pp7-13)</li> <li>• <b>Organisms</b></li> <li>• TG: L03-04 (pp21-52)</li> <li>• TG: L06-10 (pp65-118)</li> <li>• TG: L13 (pp135-148)</li> <li>• TG: L15-16 (pp155-178)</li> <li>• <b>Soils</b></li> <li>• TG: L09-10 (pp87-108)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-02 (pp5-21)</li> <li>• <b>Tree Homes</b></li> <li>• TG: Act04 (pp41-49)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L02-03 (pp11-22)</li> <li>• TG: L05-08 (pp29-52)</li> <li>• TG: L10-12 (pp63-80)</li> <li>• TG: L15-16 (pp89-96)</li> <li>• <b>Weather</b></li> <li>• TG: L10.Exts (p95)</li> </ul>
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# Carolina™ Curriculum Correlation to Florida Next Generation Sunshine State Standards – Science Grades K-5

## Grade 2

STANDARD / BODY OF KNOWLEDGE	FL.SC.2.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.2.N.1.	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.
BENCHMARK / DESCRIPTOR	SC.2.N.1.1.	<p>Raise questions about the natural world, investigate them in teams through free exploration and systematic observations, and generate appropriate explanations based on those explorations.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 01 (pp 1-3)</li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• TG: App-A (pp159-160)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-16 (pp3-116)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Organisms</b></li> <li>• TG: L01-17 (pp3-182)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-17 (pp3-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Soils</b></li> <li>• TG: L01-17 (pp3-172)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-17 (pp3-140)</li> <li>• <b>Sound</b></li> <li>• TG: L01-17 (pp3-118)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>Weather</b></li> <li>• TG: L01-17 (pp3-150)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.2.N.1.2.</b></p>	<p>Compare the observations made by different groups using the same tools.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Organisms</b></li> <li>• TG: L02-16 (pp11-178)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02-17 (pp9-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Soils</b></li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> <li>• <b>Sound</b></li> <li>• TG: L01-17 (pp3-118)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>Weather</b></li> <li>• TG: L01-12 (pp3-122)</li> <li>• TG: L15.Exts (p137)</li> <li>• TG: L16 (pp141-148)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.2.N.1.3.</b></p>	<p>Ask "how do you know?" in appropriate situations and attempt reasonable answers when asked the same question by others.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 01 (pp 1-3)</li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• TG: App-A (pp159-160)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-16 (pp3-116)</li> <li>• <b>Organisms</b></li> <li>• TG: L01-17 (pp3-182)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-17 (pp3-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses02-09 (pp27-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Soils</b></li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-17 (pp3-140)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L16-17 (pp113-118)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L13 (pp81-84)</li> <li>• <b>Weather</b></li> <li>• TG: L01-17 (pp3-150)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.2.N.1.4.</p>	<p>Explain how particular scientific investigations should yield similar conclusions when repeated.</p> <ul style="list-style-type: none"> <li>• <b>Sound</b></li> <li>• TG: L16 (pp113-116)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.2.N.1.5.</p>	<p>Distinguish between empirical observation (what you see, hear, feel, smell, or taste) and ideas or inferences (what you think).</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Light</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act 01 (pp 1-4)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-3)</li> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 02 (pp 1-6)</li> <li>• TG: Act 03 (pp 1-6)</li> <li>• TG: Act 04 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-5)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 02 (pp 1-4)</li> <li>• TG: Act 03 (pp 1-5)</li> <li>• TG: Act 04 (pp 1-4)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-16 (pp3-154)</li> <li>• TG: App-A (pp159-160)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L01-17 (pp3-120)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Organisms</b></li> <li>• TG: L01.Exts (p6)</li> <li>• TG: L02-16 (pp11-178)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-16 (pp3-98)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Exts (p99)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• <b>Sifting Through Science</b></li> <li>• TG: Act01-04 (pp7-56)</li> <li>• <b>Soils</b></li> <li>• TG: L01-16 (pp3-168)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-16 (pp3-136)</li> <li>• <b>Sound</b></li> <li>• TG: L01-17 (pp3-118)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>Weather</b></li> </ul>
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		<ul style="list-style-type: none"> <li>TG: L01-15 (pp3-140)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.N.1.6.	<p>Explain how scientists alone or in groups are always investigating new ways to solve problems.</p> <ul style="list-style-type: none"> <li><b>Building Blocks of Science: Light</b></li> <li>TG: Act 05 (pp 1-3)</li> <li><b>Building Blocks of Science: Sky Watchers</b></li> <li>TG: Act 01 (pp 1-3)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.2.E.6.	Earth Structures - Humans continue to explore the composition and structure of the surface of Earth. 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 water and natural resources.
BENCHMARK / DESCRIPTOR	SC.2.E.6.2.	<p>Describe how small pieces of rock and dead plant and animal parts can be the basis of soil and explain the process by which soil is formed.</p> <ul style="list-style-type: none"> <li><b>Soils</b></li> <li>TG: L01-05 (pp3-56)</li> <li>TG: L07-08 (pp65-86)</li> <li>TG: L11-13 (pp109-138)</li> <li>TG: L14.Exts (p143)</li> <li><b>Terrarium Habitats</b></li> <li>TG: Act01 (pp5-13)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.E.6.3.	<p>Classify soil types based on color, texture (size of particles), the ability to retain water, and the ability to support the growth of plants.</p> <ul style="list-style-type: none"> <li><b>On Sandy Shores</b></li> <li>TG: Act02 (pp27-43)</li> <li><b>Soils</b></li> <li>TG: L01-17 (pp3-172)</li> <li><b>Terrarium Habitats</b></li> <li>TG: Act01 (pp5-13)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.2.E.7.	Earth Systems and Patterns - Humans continue to explore the interactions among water, air, and land. Air and water are in constant motion that results in changing conditions that can be observed over time.
BENCHMARK / DESCRIPTOR	SC.2.E.7.1.	<p>Compare and describe changing patterns in nature that repeat themselves, such as weather conditions including temperature and precipitation, day to day and season to season.</p> <ul style="list-style-type: none"> <li><b>Building Blocks of Science: Sky Watchers</b></li> <li>TG: Act 02 (pp 1-6)</li> <li>TG: Act 03 (pp 1-6)</li> <li>TG: Act 04 (pp 1-7)</li> <li><b>Chemical Tests</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L05.Exts (p50)</li> <li>• <b>Weather</b></li> <li>• TG: L11 (pp101-112)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.E.7.2.	<p>Investigate by observing and measuring, that the Sun's energy directly and indirectly warms the water, land, and air.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 03 (pp 1-6)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.E.7.5.	<p>State the importance of preparing for severe weather, lightning, and other weather related events.</p> <ul style="list-style-type: none"> <li>• <b>Weather</b></li> <li>• TG: L02.Exts (pp15-16)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.2.E.6.	Earth Structures - Humans continue to explore the composition and structure of the surface of Earth. 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 water and natural resources.
BENCHMARK / DESCRIPTOR	SC.2.E.6.1.	<p>Recognize that Earth is made up of rocks. Rocks come in many sizes and shapes.</p> <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L03 (pp19-26)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BENCHMARK / BIG IDEA	SC.2.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 matter has mass. 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.
BENCHMARK / DESCRIPTOR	SC.2.P.8.1.	<p>Observe and measure objects in terms of their properties, including size, shape, color, temperature, weight, texture, sinking or floating in water, and attraction and repulsion of magnets.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-03 (pp54-73)</li> <li>• TG: Act05 (pp80-85)</li> <li>• TG: Act09 (pp102-107)</li> <li>• TG: Act11 (pp114-118)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L07.Exts (p58)</li> <li>• TG: L10.Exts (pp84-85)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L12 (pp101-106)</li> <li>• TG: L16.Exts (pp132-133)</li> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• <b>Comparing and Measuring</b></li> <li>• TG: L05-11 (pp31-80)</li> <li>• TG: L13-17 (pp87-120)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L10.Exts (pp73-74)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L02-13 (pp11-108)</li> <li>• TG: L14.Exts (p114)</li> <li>• TG: L15-17 (pp121-140)</li> <li>• <b>Sound</b></li> <li>• TG: L12.Exts (p88)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.P.8.2.	<p>Identify objects and materials as solid, liquid, or gas.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act03 (pp66-73)</li> <li>• <b>Changes</b></li> <li>• TG: L01 (pp3-20)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-17 (pp3-140)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.P.8.3.	<p>Recognize that solids have a definite shape and that liquids and gases take the shape of their container.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act03 (pp66-73)</li> <li>• <b>Changes</b></li> <li>• TG: L01 (pp3-20)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L01-17 (pp3-140)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.P.8.5.	<p>Measure and compare temperatures taken every day at the same time.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Sky Watchers</b></li> <li>• TG: Act 03 (pp 1-6)</li> <li>• <b>Weather</b></li> <li>• TG: L05-09 (pp43-90)</li> <li>• TG: App-A (pp151-152)</li> <li>• TG: App-B (pp153-167)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BENCHMARK / BIG IDEA	SC.2.P.9.	<b>Changes in Matter</b> - A. Matter can undergo a variety of changes. B. Matter can be changed physically or chemically.
BENCHMARK / DESCRIPTOR	SC.2.P.9.1.	<p>Investigate that materials can be altered to change some of their properties, but not all materials respond the same way to any one alteration.</p> <ul style="list-style-type: none"> <li>• <b>Changes</b></li> <li>• TG: L01 (pp3-20)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L03-04 (pp31-52)</li> <li>• TG: L12-14 (pp111-136)</li> <li>• TG: L16-17 (pp147-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L10.Exts (p97)</li> <li>• TG: L11.Exts (pp103-104)</li> <li>• TG: L15.Exts (pp140-141)</li> <li>• TG: L16.Exts (pp152-153)</li> <li>• TG: L17 (pp155-158)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act03 (pp25-31)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.P.	Physical Science
BENCHMARK / BIG IDEA	SC.2.P.13.	Forces and <b>Changes</b> 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.2.P.13.1.	Investigate the effect of applying various pushes and pulls on different objects. <ul style="list-style-type: none"> <li>• <b>Solids and Liquids</b></li> <li>• TG: L04 (pp29-40)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.2.P.13.2.	Demonstrate that magnets can be used to make some things move without touching them. <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L11.Exts (p80)</li> <li>• <b>Solids and Liquids</b></li> <li>• TG: L07 (pp55-62)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.L.	Life Science
BENCHMARK / BIG IDEA	SC.2.L.14.	Organization and Development of Living <b>Organisms</b> - A. All plants and animals, including humans, are alike in some ways and different in others. B. All plants and animals, including humans, have internal parts and external structures that function to keep them alive and help them grow and reproduce. C. Humans can better understand the natural world through careful observation.
BENCHMARK / DESCRIPTOR	SC.2.L.14.1.	Distinguish human body parts (brain, heart, lungs, stomach, muscles, and skeleton) and their basic functions. <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Understanding My Body</b></li> <li>• TG: Act 01 (pp 1-7)</li> <li>• TG: Act 05 (pp 1-6)</li> <li>• TG: Act 06 (pp 1-5)</li> <li>• <b>Organisms</b></li> <li>• TG: L16-17 (pp169-182)</li> <li>• <b>Sound</b></li> <li>• TG: L08.Exts (pp61-62)</li> <li>• TG: L14.Exts (p98)</li> </ul>

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STANDARD / BODY OF KNOWLEDGE	FL.SC.2.L.	Life Science
BENCHMARK / BIG IDEA	SC.2.L.16.	Heredity and Reproduction - A. Offspring of plants and animals are similar to, but not exactly like, their parents or each other. B. Life cycles vary among organisms, but reproduction is a major stage in the life cycle of all organisms.
BENCHMARK / DESCRIPTOR	SC.2.L.16.1.	<p>Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act04-05 (pp45-70)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les04 (pp39-53)</li> <li>• <b>Organisms</b></li> <li>• TG: L03.Exts (pp29-30)</li> <li>• TG: L06 (pp65-74)</li> <li>• TG: L10.Exts (p115)</li> <li>• TG: L11-13 (pp119-148)</li> <li>• TG: L16.Exts (pp172-173)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L10 (pp55-60)</li> <li>• TG: L12 (pp67-70)</li> <li>• TG: L15-16 (pp89-98)</li> <li>• <b>Soils</b></li> <li>• TG: L16.Exts (pp164-166)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-09 (pp3-62)</li> <li>• TG: L11-16 (pp69-96)</li> <li>• TG: App-A (pp97-100)</li> <li>• TG: App-B (pp101-110)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.2.L.	Life Science
BENCHMARK / BIG IDEA	SC.2.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.2.L.17.1.	<p>Compare and contrast the basic needs that all living things, including humans, have for survival.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01 (pp13-23)</li> <li>• <b>Organisms</b></li> <li>• TG: L03-04 (pp21-52)</li> <li>• TG: L06-10 (pp65-118)</li> <li>• TG: L13 (pp135-148)</li> <li>• TG: L15-16 (pp155-178)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L03-04 (pp13-28)</li> <li>• TG: L16.Exts (pp96-97)</li> <li>• <b>Soils</b></li> <li>• TG: L09-10 (pp87-108)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-02 (pp5-21)</li> <li>• <b>The Life Cycle of Butterflies</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L02-03 (pp11-22)</li> <li>• TG: L05-08 (pp29-52)</li> <li>• TG: L10-12 (pp63-80)</li> <li>• TG: L15-16 (pp89-96)</li> <li>• <b>Weather</b></li> <li>• TG: L10.Exts (p95)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.2.L.17.2.</b></p>	<p>Recognize and explain that living things are found all over Earth, but each is only able to live in habitats that meet its basic needs.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les03 (pp27-37)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act04 (pp59-89)</li> <li>• <b>Organisms</b></li> <li>• TG: L04 (pp37-52)</li> <li>• TG: L11-12 (pp119-134)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-03 (pp3-22)</li> <li>• TG: L12 (pp75-80)</li> </ul>

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## Grade 3

STANDARD / BODY OF KNOWLEDGE	FL.SC.3.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.3.N.1.	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.
BENCHMARK / DESCRIPTOR	SC.3.N.1.1.	<p>Raise questions about the natural world, investigate them individually and in teams through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L01-17 (pp3-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• TG: Post Assessment (pp 85-88)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• TG: App-A (pp159-160)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Exts (p94)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01 (pp3-14)</li> <li>• TG: L03-17 (pp25-156)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-17 (pp3-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Soils</b></li> <li>• TG: L01-17 (pp3-172)</li> <li>• <b>Sound</b></li> <li>• TG: L01-17 (pp3-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>STC Book: Electric Circuits: (pp13-16), (pp60-61)</b></li> <li>• <b>STC Book: Motion and Design: (pp23-28)</b></li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.3.N.1.2.</p>	<p>Compare the observations made by different groups using the same tools and seek reasons to explain the differences across groups.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L16 (pp165-168)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02 (pp 27-33)</li> <li>• TG: Act 05-06 (pp 65-79)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Land and Water</b></li> <li>• TG: L06 (pp63-74)</li> <li>• TG: L08 (pp85-98)</li> <li>• TG: L10-12 (pp109-142)</li> <li>• TG: L15-16 (pp163-182)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L04-05 (pp35-56)</li> <li>• TG: L07 (pp65-72)</li> <li>• TG: L10 (pp91-100)</li> <li>• TG: L12 (pp109-116)</li> <li>• TG: L15-16 (pp139-152)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02-17 (pp9-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Soils</b></li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L16-17 (pp113-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.9 (pp 152-167)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.3.N.1.3.</b></p>	<p>Keep records as appropriate, such as pictorial, written, or simple charts and graphs, of investigations conducted.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp1370)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L04-09 (pp37-106)</li> <li>• TG: L10.Exts (p110)</li> <li>• TG: L11-12 (pp115-134)</li> <li>• TG: L14.Exts (p145)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02 (pp 27-33)</li> <li>• TG: Act 05-06 (pp 65-79)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-10 (pp3-100)</li> <li>• TG: L12-16 (pp107-154)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-05 (pp3-62)</li> <li>• TG: L07 (pp75-84)</li> <li>• TG: L09 (pp99-108)</li> <li>• TG: L13-14 (pp143-162)</li> <li>• TG: L17 (pp183-186)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L03-05 (pp25-56)</li> <li>• TG: L07 (pp65-72)</li> <li>• TG: L14 (pp125-138)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02-16 (pp9-98)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L17 (pp117-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.3 (pp 56-69)</li> <li>• TG: Ses 1.5 (pp 86-103)</li> <li>• TG: Ses 1.7-1.8 (pp 122-151)</li> <li>• TG: Ses 2.3 (pp 202-225)</li> <li>• TG: Ses 4.2 (pp 364-373)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L02 (pp11-18)</li> </ul>
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		<ul style="list-style-type: none"> <li>• TG: L13 (pp81-84)</li> <li>• STC Book: Animal Studies: (pp12-15), (pp38-39), (pp45-49)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.N.1.4.	<p>Recognize the importance of communication among scientists.</p> <ul style="list-style-type: none"> <li>• <b>Animal Studies</b></li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-04 (pp 19-43)</li> <li>• TG: Ext 05 (p 46)</li> <li>• TG: Act 06-10 (pp 49-75)</li> <li>• TG: Ext 11 (p 79)</li> <li>• TG: Act 12 (pp 81-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-16 (pp3-154)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-05 (pp3-62)</li> <li>• TG: L08 (pp85-98)</li> <li>• TG: L10-14 (pp109-162)</li> <li>• TG: L16-17 (pp173-186)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Exts (p94)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01-04 (pp3-46)</li> <li>• TG: L06-17 (pp57-156)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01 (pp3-8)</li> <li>• <b>Soils</b></li> <li>• TG: L01-17 (pp3-172)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L17 (pp117-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Pre Assessment (p 1)</li> <li>• TG: Ses 1 Post Assessment (pp 1-2)</li> <li>• TG: Ses 1 Reading (p 2)</li> <li>• TG: Ses 1.4-1.5 (pp 70-103)</li> <li>• TG: Ses 1.7-1.9 (pp 122-167)</li> <li>• TG: Ses 2 Pre Assessment (p 1)</li> <li>• TG: Ses 2 Post Assessment (pp 1-2)</li> <li>• TG: Ses 2.1-2.3 (pp 172-225)</li> <li>• TG: Ses 2.3 Reading (pp 1-2)</li> <li>• TG: Ses 2.4 (pp 226-245)</li> <li>• TG: Ses 2.4 Reading (pp 1-2)</li> <li>• TG: Ses 2.5-2.6 (pp 246-281)</li> <li>• TG: Ses 3 Pre Assessment (pp 1-2)</li> <li>• TG: Ses 3 Post Assessment (pp 1-2)</li> <li>• TG: Ses 3 Reading (pp 1-2)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4 Pre Assessment (pp 1-2)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Ses 4 Post Assessment (pp 1-2)</li> <li>• TG: Ses 4 Reading (pp 41-42)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>STC Book: Animal Studies: (pp58-61)</b></li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.3.N.1.5.</p>	<p>Recognize that scientists question, discuss, and check each others' evidence and explanations.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01 (pp5-13)</li> <li>• TG: Les03 (pp27-37)</li> <li>• TG: Les05-06 (pp55-66)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01 (pp3-10)</li> <li>• TG: L17 (pp183-186)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.3.N.1.6.</p>	<p>Infer based on observation.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-06 (pp 19-53)</li> <li>• TG: Act 08-10 (pp 59-75)</li> <li>• TG: Act 12 (pp 81-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L03-04 (pp 23-44)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-02 (pp7-23)</li> <li>• TG: Ses05-06 (pp43-63)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L16.Exts (pp96-97)</li> <li>• <b>Rocks and Minerals</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L11 (pp79-84)</li> <li>• Soils</li> <li>• TG: L03.Exts (pp32-33)</li> <li>• TG: L08 (pp73-86)</li> <li>• TG: L11 (pp109-114)</li> <li>• Sound</li> <li>• TG: L15-16 (pp103-116)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.3.N.1.7.</b></p>	<p>Explain that empirical evidence is information, such as observations or measurements, that is used to help validate explanations of natural phenomena.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L02 (pp11-20)</li> <li>• TG: L04-09 (pp37-106)</li> <li>• TG: L11-12 (pp115-134)</li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L01-17 (pp3-138)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02-06 (pp 27-79)</li> <li>• <b>Changes</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-16 (pp3-154)</li> <li>• TG: App-A (pp159-160)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp21-93)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01-15 (pp3-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-16 (pp3-98)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Soils</b></li> <li>• TG: L01-16 (pp3-168)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L17 (pp117-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: L01-16 (pp3-96)</li> <li>• <b>STC Book: Land and Water:</b> (pp07-18), (pp21-38), (pp41-61)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.3.N.</b>	<b>Nature of Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.3.N.3.</b>	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.
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.3.N.3.1.</b>	<p>Recognize that words in science can have different or more specific meanings than their use in everyday language; for example, energy, cell, heat/cold, and evidence.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: App-A (pp173-174)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-06 (pp5-66)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: App-A (pp139-140)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Changes</b></li> <li>• TG: App-C (pp171-173)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: App-B (pp161-162)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L10-11 (pp53-64)</li> <li>• TG: L14 (pp73-76)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: App-A (pp87-88)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Involving Dissolving</b></li> <li>• TG: Act01-04 (pp5-13)</li> <li>• TG: Act02 (pp15-37)</li> <li>• <b>Liquid Explorations</b></li> <li>• TG: Act01-05 (pp5-49)</li> <li>• <b>Land and Water</b></li> <li>• TG: L06 (pp63-74)</li> <li>• TG: L08-09 (pp85-108)</li> <li>• TG: App-B (pp191-193)</li> <li>• <b>Motion and Design</b></li> <li>• TG: App-A (pp157-158)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: App-D (pp125-127)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: App-A (pp129-131)</li> <li>• <b>Secret Formulas</b></li> <li>• TG: Ses01-09 (pp15-97)</li> <li>• TG: Exts (p99)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Soils</b></li> <li>• TG: App-C (pp181-182)</li> <li>• <b>Sound</b></li> <li>• TG: App-B (pp121-122)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.3 (pp 28-69)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Life Cycle of Butterflies</b></li> <li>• TG: App-C (pp111-112)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.3.N.3.2.</b></p>	<p>Recognize that scientists use models to help understand and explain how things work.</p> <ul style="list-style-type: none"> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les01-03 (pp5-37)</li> <li>• TG: Exts (p67)</li> <li>• <b>Balancing and Weighing</b></li> <li>• TG: L02-03 (pp9-26)</li> <li>• TG: L05-06 (pp35-54)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-02 (pp 19-29)</li> <li>• TG: Act 04 (pp 37-43)</li> <li>• TG: Act 06-12 (pp 49-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L02-05 (pp 17-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 04 (pp 51-63)</li> <li>• TG: Act 06 (pp 75-79)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Electric Circuits</li> <li>• TG: L02-16 (pp7-84)</li> <li>• Land and Water</li> <li>• TG: L02-04 (pp11-50)</li> <li>• TG: L09-12 (pp99-142)</li> <li>• TG: L15.Exts (p167)</li> <li>• TG: L16 (pp173-182)</li> <li>• Plant Growth and Development</li> <li>• TG: L02.Exts (p11)</li> <li>• TG: L13-14 (pp71-88)</li> <li>• Sound</li> <li>• TG: L07-08 (pp49-66)</li> <li>• TG: L11 (pp79-84)</li> <li>• TG: L13-14 (pp91-102)</li> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3 Reading (pp 1-2)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.3.N.3.3.</p>	<p>Recognize that all models are approximations of natural phenomena; as such, they do not perfectly account for all observations.</p> <ul style="list-style-type: none"> <li>• Buzzing a Hive</li> <li>• TG: Les01-03 (pp5-37)</li> <li>• TG: Exts (p67)</li> <li>• Balancing and Weighing</li> <li>• TG: L02-03 (pp9-26)</li> <li>• TG: L05-06 (pp35-54)</li> <li>• Building Blocks of Science: Human Bodyworks</li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-02 (pp 19-29)</li> <li>• TG: Act 04 (pp 37-43)</li> <li>• TG: Act 06-12 (pp 49-84)</li> <li>• Building Blocks of Science: Measure It!</li> <li>• TG: L02-05 (pp 17-47)</li> <li>• Building Blocks of Science: Understanding Cells and DNA</li> <li>• TG: Act 04 (pp 51-63)</li> <li>• TG: Act 06 (pp 75-79)</li> <li>• Electric Circuits</li> <li>• TG: L02-16 (pp7-84)</li> <li>• Land and Water</li> <li>• TG: L02-04 (pp11-50)</li> <li>• TG: L09-12 (pp99-142)</li> <li>• TG: L15.Exts (p167)</li> <li>• TG: L16 (pp173-182)</li> <li>• Plant Growth and Development</li> <li>• TG: L02.Exts (p11)</li> <li>• TG: L13-14 (pp71-88)</li> <li>• Sound</li> <li>• TG: L07-08 (pp49-66)</li> <li>• TG: L11 (pp79-84)</li> <li>• TG: L13-14 (pp91-102)</li> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3 Reading (pp 1-2)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.3.E.5.	Earth in Space and Time - Humans continue to explore Earth's place in space. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the Solar System, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of our Solar System.
BENCHMARK / DESCRIPTOR	SC.3.E.5.1.	<p>Explain that stars can be different; some are smaller, some are larger, and some appear brighter than others; all except the Sun are so far away that they look like points of light.</p> <ul style="list-style-type: none"> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Pre Assessment (p 1)</li> <li>• TG: Ses 1 Post Assessment (pp 1-2)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.E.5.2.	<p>Identify the Sun as a star that emits energy; some of it in the form of light.</p> <ul style="list-style-type: none"> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Pre Assessment (p 1)</li> <li>• TG: Ses 1 Post Assessment (pp 1-2)</li> <li>• TG: Ses 1.4-1.9 (pp 70-167)</li> <li>• TG: Ses 3.1 -3.3 (pp 286-323)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.E.5.3.	<p>Recognize that the Sun appears large and bright because it is the closest star to Earth.</p> <ul style="list-style-type: none"> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Pre Assessment (p 1)</li> <li>• TG: Ses 1 Post Assessment (pp 1-2)</li> <li>• TG: Ses 1.4 -1.9 (pp 70-167)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.E.5.4.	<p>Explore the Law of Gravity by demonstrating that gravity is a force that can be overcome.</p> <ul style="list-style-type: none"> <li>• <b>Land and Water</b></li> <li>• TG: L13 (pp143-152)</li> <li>• TG: Ses 1.1 (pp 28-45)</li> <li>• TG: Ses 1.8 (pp 136-151)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.E.5.5.	<p>Investigate that the number of stars that can be seen through telescopes is dramatically greater than those seen by the unaided eye.</p> <ul style="list-style-type: none"> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.9 (pp 152-167)</li> </ul>

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		<ul style="list-style-type: none"> <li>TG: Ses 3 Reading (pp 1-2)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.3.E.6.	Earth Structures - Humans continue to explore the composition and structure of the surface of Earth. 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 water and natural resources.
BENCHMARK / DESCRIPTOR	SC.3.E.6.1.	<p>Demonstrate that radiant energy from the Sun can heat objects and when the Sun is not present, heat may be lost.</p> <ul style="list-style-type: none"> <li>STC Book: Electric Circuits: (pp17-21)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.P.	Physical Science
BENCHMARK / BIG IDEA	SC.3.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 matter has mass. 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.
BENCHMARK / DESCRIPTOR	SC.3.P.8.1.	<p>Measure and compare temperatures of various samples of solids and liquids.</p> <ul style="list-style-type: none"> <li>Building Blocks of Science: Measure It!</li> <li>TG: L04-05 (pp 39-47)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.P.8.3.	<p>Compare materials and objects according to properties such as size, shape, color, texture, and hardness.</p> <ul style="list-style-type: none"> <li>Bubble Festival</li> <li>TG: Act01-03 (pp54-73)</li> <li>TG: Act05 (pp80-85)</li> <li>TG: Act09 (pp102-107)</li> <li>TG: Act11 (pp114-118)</li> <li>Balancing and Weighing</li> <li>TG: L03.Exts (p20)</li> <li>TG: L08.Exts (p67)</li> <li>TG: L09.Exts (p76)</li> <li>TG: L12 (pp101-106)</li> <li>Changes</li> <li>TG: L02.Exts (pp26-27)</li> <li>TG: L03 (pp31-42)</li> <li>TG: L05 (pp53-62)</li> <li>TG: L07-09 (pp71-94)</li> <li>TG: L12-16 (pp111-154)</li> <li>Chemical Tests</li> <li>TG: L01-16 (pp3-154)</li> <li>Sound</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L02-05 (pp11-38)</li> <li>• TG: L06.Exts (p42)</li> <li>• TG: L09-10 (pp67-78)</li> <li>• TG: L12 (pp85-90)</li> <li>• TG: L14 (pp95-102)</li> <li>• TG: L17 (pp117-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 2 Pre Assessment (p 1)</li> <li>• TG: Ses 2 Post Assessment (pp 1-2)</li> <li>• TG: Ses 2.1-2.3 (pp 172-225)</li> <li>• TG: Ses 4.3 (pp 374-393)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.P.	Physical Science
BENCHMARK / BIG IDEA	SC.3.P.9.	<b>Changes in Matter</b> - A. Matter can undergo a variety of changes. B. Matter can be changed physically or chemically.
BENCHMARK / DESCRIPTOR	SC.3.P.9.1.	Describe the changes water undergoes when it changes state through heating and cooling by using familiar scientific terms such as melting, freezing, boiling, evaporation, and condensation. <ul style="list-style-type: none"> <li>• <b>Changes</b></li> <li>• TG: L01-03 (pp3-42)</li> <li>• <b>Land and Water</b></li> <li>• TG: L02.Exts (p19)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.P.	Physical Science
BENCHMARK / BIG IDEA	SC.3.P.10.	<b>Forms of Energy</b> - 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.3.P.10.1.	Identify some basic forms of energy such as light, heat, sound, electrical, and mechanical. <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act05 (pp80-85)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 12 (pp 81-84)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L10 (pp93-100)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L06 (pp57-64)</li> <li>• TG: L11-12 (pp101-116)</li> <li>• <b>Sound</b></li> <li>• TG: L01-17 (pp3-118)</li> <li>• <b>STC Book: Electric Circuits:</b> (pp07-21), (pp24-44), (pp47-61)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.P.10.2.	Recognize that energy has the ability to cause motion or create change. <ul style="list-style-type: none"> <li>• <b>Electric Circuits</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L06 (pp57-64)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.P.10.3.	<p>Demonstrate that light travels in a straight line until it strikes an object or travels from one medium to another.</p> <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L09 (pp63-70)</li> <li>• <b>STC Book: Electric Circuits:</b> (pp39-41)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.3.P.10.4.	<p>Demonstrate that light can be reflected, refracted, and absorbed.</p> <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L08-09 (pp57-70)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.L.	Life Science
BENCHMARK / BIG IDEA	SC.3.L.14.	<p>Organization and Development of Living <b>Organisms</b> - A. All plants and animals, including humans, are alike in some ways and different in others. B. All plants and animals, including humans, have internal parts and external structures that function to keep them alive and help them grow and reproduce. C. Humans can better understand the natural world through careful observation.</p>
BENCHMARK / DESCRIPTOR	SC.3.L.14.1.	<p>Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.</p> <ul style="list-style-type: none"> <li>• <b>Buzzing a Hive</b></li> <li>• TG: Les02 (pp15-25)</li> <li>• <b>Land and Water</b></li> <li>• TG: L14.Exts (p156)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-06 (pp3-38)</li> <li>• TG: L10 (pp55-60)</li> <li>• TG: L11.Exts (p63)</li> <li>• TG: L12.Exts (pp68-69)</li> <li>• TG: L13 (pp71-78)</li> <li>• TG: L16.Exts (pp96-97)</li> <li>• TG: L17 (pp99-100)</li> <li>• <b>Soils</b></li> <li>• TG: L09-10 (pp87-108)</li> <li>• TG: L16 (pp159-168)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.3.L.	Life Science
BENCHMARK / BIG IDEA	SC.3.L.15.	<p>Diversity and Evolution of Living <b>Organisms</b> - A. Earth is home to a great diversity of living things, but changes in the environment can affect their survival. B. Individuals of the same kind often differ in their characteristics and sometimes the differences give individuals an advantage in surviving and reproducing.</p>
BENCHMARK / DESCRIPTOR	SC.3.L.15.1.	<p>Classify animals into major groups (mammals, birds, reptiles, amphibians, fish, arthropods, vertebrates and invertebrates, those having live births and those</p>

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		<p>which lay eggs) according to their physical characteristics and behaviors.</p> <ul style="list-style-type: none"> <li>• Aquatic Habitats</li> <li>• TG: Act02 (pp25-33)</li> <li>• TG: Exts (pp70-78)</li> <li>• Animal Studies</li> <li>• TG: L03-06 (pp21-74)</li> <li>• TG: L07.Exts (pp79-80)</li> <li>• TG: L08-09 (pp87-106)</li> <li>• TG: L10.Exts (p110)</li> <li>• TG: L14.Exts (p145)</li> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 1.6 (pp 104-121)</li> <li>• The Life Cycle of Butterflies</li> <li>• TG: L06.Exts (p37)</li> <li>• STC Book: Animal Studies: (pp06-19), (pp22-32), (pp35-42), (pp45-61)</li> <li>• STC Book: Motion and Design: (pp07-09)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.3.L.</b>	<b>Life Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.3.L.17.</b>	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.
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.3.L.17.1.</b>	<p>Describe how animals and plants respond to changing seasons.</p> <ul style="list-style-type: none"> <li>• STC Book: Animal Studies: (pp12-15)</li> </ul>

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## Grade 4

STANDARD / BODY OF KNOWLEDGE	FL.SC.4.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.4.N.1.	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.
BENCHMARK / DESCRIPTOR	SC.4.N.1.1.	<p>Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L07 (pp75 - 86)</li> <li>• TG: L12 (pp123-134)</li> <li>• TG: L14 (pp143-156)</li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• TG: Exts (pp63-64)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• TG: App-A (pp159-160)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L02-17 (pp13-171)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L01-17 (pp3-136)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L02-04 (pp11-48)</li> <li>• TG: L06-16 (pp57-154)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• TG: Exts (p102)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01-17 (pp3-88)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01 (pp3-14)</li> <li>• TG: L03-15 (pp25-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L01-17 (pp3-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Sound</b></li> <li>• TG: L01-17 (pp3-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>STC Book: Ecosystems:</b> (pp43-44)</li> <li>• <b>STC Book: Electric Circuits:</b> (pp13-16), (pp60-61)</li> <li>• <b>STC Book: Floating and Sinking:</b> (pp60-61)</li> <li>• <b>STC Book: Microworlds:</b> (pp23-25)</li> <li>• <b>STC Book: Motion and Design:</b> (pp23-28)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.4.N.1.2.</b></p>	<p>Compare the observations made by different groups using multiple tools and seek reasons to explain the differences across groups.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L16 (pp165-168)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02 (pp 27-33)</li> <li>• TG: Act 05-06 (pp 65-79)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-17 (pp3-158)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L13-14 (pp125-144)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L03 (pp21-30)</li> <li>• TG: L05 (pp39-48)</li> <li>• TG: L09-14 (pp69-118)</li> <li>• TG: L16 (pp129-134)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L03 (pp23-38)</li> <li>• TG: L05-06 (pp49-68)</li> <li>• TG: L08-09 (pp79-94)</li> <li>• TG: L11-12 (pp101-116)</li> <li>• TG: L14-15 (pp125-148)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Land and Water</b></li> <li>• TG: L06 (pp63-74)</li> <li>• TG: L08 (pp85-98)</li> <li>• TG: L10-12 (pp109-142)</li> <li>• TG: L15-16 (pp163-182)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• TG: Exts (p102)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L04-05 (pp35-56)</li> <li>• TG: L07 (pp65-72)</li> <li>• TG: L10 (pp91-100)</li> <li>• TG: L12 (pp109-116)</li> <li>• TG: L15-16 (pp139-152)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> </ul>
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		<ul style="list-style-type: none"> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02-17 (pp9-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L16-17 (pp113-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.9 (pp 152-167)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.4.N.1.3.</b></p>	<p>Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L01-17 (pp3-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-16 (pp3-154)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L01-17 (pp3-171)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L01-17 (pp3-136)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L02-14 (pp11-130)</li> <li>• TG: L16 (pp149-154)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Land and Water</li> <li>• TG: L01-02 (pp3-28)</li> <li>• TG: L04-17 (pp37-186)</li> <li>• Microscopic Explorations</li> <li>• TG: Act01-10 (pp37-97)</li> <li>• Mystery Festival</li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• Moons of Jupiter</li> <li>• TG: Act01-05 (pp7-64)</li> <li>• Microworlds</li> <li>• TG: L01-17 (pp3-88)</li> <li>• Motion and Design</li> <li>• TG: L01 (pp3-14)</li> <li>• TG: L03-13 (pp25-124)</li> <li>• TG: L15 (pp139-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• Of Cabbages and Chemistry</li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> <li>• Oobleck: What Do Scientists Do?</li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• On Sandy Shores</li> <li>• TG: Act01-05 (pp13-108)</li> <li>• Plant Growth and Development</li> <li>• TG: L01-16 (pp3-98)</li> <li>• Rocks and Minerals</li> <li>• TG: L01-16 (pp3-126)</li> <li>• Stories in Stone</li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• Schoolyard Ecology</li> <li>• TG: Act01-05 (pp7-59)</li> <li>• Sound</li> <li>• TG: L01-17 (pp3-118)</li> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• Terrarium Habitats</li> <li>• TG: Act01-05 (pp5-48)</li> <li>• STC Book: Ecosystems: (pp43-44)</li> <li>• STC Book: Microworlds: (pp23-25)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.N.1.4.	<p>Attempt reasonable answers to scientific questions and cite evidence in support.</p> <ul style="list-style-type: none"> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 2.1-2.2 (pp 172-201)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.N.1.5.	<p>Compare the methods and results of investigations done by other classmates.</p> <ul style="list-style-type: none"> <li>• Aquatic Habitats</li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• Animal Studies</li> <li>• TG: L16 (pp165-168)</li> <li>• Bubble Festival</li> </ul>

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- TG: Act01-12 (pp54-124)
- **Building Blocks of Science: Human Bodyworks**
- TG: Act 01-12 (pp 19-84)
- **Building Blocks of Science: Measure It!**
- TG: L01-05 (pp 11-47)
- **Building Blocks of Science: Understanding Cells and DNA**
- TG: Act 02 (pp 27-33)
- TG: Act 05-06 (pp 65-79)
- **Crime Lab Chemistry**
- TG: Act01-03 (pp7-62)
- **Chemical Tests**
- TG: L01-17 (pp3-158)
- **Ecosystems**
- TG: L13-14 (pp125-144)
- **Fingerprinting**
- TG: Ses01-03 (pp7-25)
- **Floating and Sinking**
- TG: L03 (pp21-30)
- TG: L05 (pp39-48)
- 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)
- **Investigating Artifacts**
- TG: Ses01-06 (pp7-63)
- TG: Exts (pp68-69)
- **Land and Water**
- TG: L06 (pp63-74)
- TG: L08 (pp85-98)
- TG: L10-12 (pp109-142)
- TG: L15-16 (pp163-182)
- **Microscopic Explorations**
- TG: Act01-10 (pp37-97)
- TG: Exts (p102)
- **Mystery Festival**
- TG: Ses01-05 (pp109-197)
- **Moons of Jupiter**
- TG: Act01-05 (pp7-64)
- **Motion and Design**
- TG: L04-05 (pp35-56)
- TG: L07 (pp65-72)
- TG: L10 (pp91-100)
- TG: L12 (pp109-116)
- TG: L15-16 (pp139-152)
- **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)
- **On Sandy Shores**

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		<ul style="list-style-type: none"> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02-17 (pp9-100)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L16-17 (pp113-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.9 (pp 152-167)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> </ul>
<p><b>BENCHMARK / DESCRIPTOR</b></p>	<p><b>SC.4.N.1.6.</b></p>	<p>Keep records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L04-12 (pp37-134)</li> <li>• TG: L14.Exts (p145)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02 (pp 27-33)</li> <li>• TG: Act 05-06 (pp 65-79)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L01-10 (pp3-100)</li> <li>• TG: L12-16 (pp107-154)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L02-04 (pp13-52)</li> <li>• TG: L06 (pp61-74)</li> <li>• TG: L09-12 (pp95-124)</li> <li>• TG: L14 (pp133-144)</li> <li>• TG: L16.Exts (p167)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L01-17 (pp3-136)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L01 (pp3-10)</li> <li>• TG: L02.Exts (p19)</li> <li>• TG: L03-04 (pp23-48)</li> <li>• TG: L06 (pp57-68)</li> <li>• TG: L09-10 (pp85-100)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L12 (pp107-116)</li> <li>• TG: L16-17 (pp149-156)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-05 (pp3-62)</li> <li>• TG: L07 (pp75-84)</li> <li>• TG: L09 (pp99-108)</li> <li>• TG: L13-14 (pp143-162)</li> <li>• TG: L17 (pp183-186)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01-17 (pp3-88)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L03-05 (pp25-56)</li> <li>• TG: L07 (pp65-72)</li> <li>• TG: L14 (pp125-138)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act01-05 (pp13-108)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02-16 (pp9-98)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01-16 (pp3-126)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Sound</b></li> <li>• TG: L01-14 (pp3-102)</li> <li>• TG: L17 (pp117-118)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.3 (pp 56-69)</li> <li>• TG: Ses 1.5 (pp 86-103)</li> <li>• TG: Ses 1.7-1.8 (pp 122-151)</li> <li>• TG: Ses 2.3 (pp 202-225)</li> <li>• TG: Ses 4.2 (pp 364-373)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>STC Book: Animal Studies:</b> (pp12-15), (pp38-39), (pp45-49)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.N.1.7.	Recognize and explain that scientists base their explanations on evidence.

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		<ul style="list-style-type: none"> <li>• <b>Animal Studies</b></li> <li>• TG: L16 (pp165-168)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02 (pp 27-33)</li> <li>• <b>STC Book: Land and Water: (pp07-09)</b></li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.N.1.8.	<p>Recognize that science involves creativity in designing experiments.</p> <ul style="list-style-type: none"> <li>• <b>Animal Studies</b></li> <li>• TG: L16 (pp165-168)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L03-04 (pp 23-44)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act03 (pp47-62)</li> <li>• TG: Exts (pp63-64)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L16.Exts (pp96-97)</li> <li>• <b>Sound</b></li> <li>• TG: L12.Exts (p88)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.4.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.4.N.2.1.	<p>Explain that science focuses solely on the natural world.</p> <ul style="list-style-type: none"> <li>• <b>Animal Studies</b></li> <li>• TG: L16 (pp165-168)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.4.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.4.N.3.1.	<p>Explain that models can be three dimensional, two dimensional, an explanation in your mind, or a computer mode.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-02 (pp 19-29)</li> <li>• TG: Act 04 (pp 37-43)</li> <li>• TG: Act 06-12 (pp 49-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L0-052 (pp 17-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 04 (pp 51-63)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Act 06 (pp 75-79)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L02-07 (pp13-82)</li> <li>• TG: L10 (pp99-110)</li> <li>• TG: L13 (pp125-132)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L02-16 (pp7-84)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L06 (pp49-54)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-02 (pp7-16)</li> <li>• TG: Ses04 (pp33-37)</li> <li>• <b>Land and Water</b></li> <li>• TG: L02-04 (pp11-50)</li> <li>• TG: L09-12 (pp99-142)</li> <li>• TG: L15.Exts (p167)</li> <li>• TG: L16 (pp173-182)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act10 (pp93-97)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act03 (pp31-39)</li> <li>• <b>Plant Growth and Development</b></li> <li>• TG: L02.Exts (p11)</li> <li>• TG: L13-14 (pp71-88)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses03 (pp33-45)</li> <li>• <b>Sound</b></li> <li>• TG: L07-08 (pp49-66)</li> <li>• TG: L11 (pp79-84)</li> <li>• TG: L13-14 (pp91-102)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3 Reading (pp 1-2)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.4.E.</b>	<b>Earth and Space Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.4.E.5.</b>	Earth in Space and Time - Humans continue to explore Earth's place in space. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the Solar System, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of our Solar System.
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.4.E.5.2.</b>	Describe the changes in the observable shape of the moon over the course of about a month. <ul style="list-style-type: none"> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 4 Pre Assessment (pp 1-2)</li> <li>• TG: Ses 4 Post Assessment (pp 1-2)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.4.E.5.3.</b>	Recognize that Earth revolves around the Sun in a year and rotates on its axis in

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		<p>a 24-hour day.</p> <ul style="list-style-type: none"> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 3 Pre Assessment (pp 1-2)</li> <li>• TG: Ses 3 Post Assessment (pp 1-2)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.E.5.4.	<p>Relate that the rotation of Earth (day and night) and apparent movements of the Sun, Moon, and stars are connected.</p> <ul style="list-style-type: none"> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01 (pp7-17)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 3 Pre Assessment (pp 1-2)</li> <li>• TG: Ses 3 Post Assessment (pp 1-2)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.E.5.5.	<p>Investigate and report the effects of space research and exploration on the economy and culture of Florida.</p> <ul style="list-style-type: none"> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act04-05 (pp41-64)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L11.Exts (p107)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Reading (p 2)</li> <li>• TG: Ses 1.1-1.3 (pp 28-69)</li> <li>• TG: Ses 1.7-1.8 (pp 122-151)</li> <li>• TG: Ses 2.3 Reading (pp 1-2)</li> <li>• TG: Ses 2.4 Reading (pp 1-2)</li> <li>• TG: Ses 2.6 (pp 260-281)</li> <li>• TG: Ses 3 Reading (pp 1-2)</li> <li>• TG: Ses 4 Reading (pp 41-42)</li> <li>• <b>STC Book: Motion and Design: (pp44-46), (p63)</b></li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.4.E.6.	<p>Earth Structures - Humans continue to explore the composition and structure of the surface of Earth. 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 water and natural resources.</p>
BENCHMARK / DESCRIPTOR	SC.4.E.6.1.	<p>Identify the three categories of rocks: igneous, (formed from molten rock); sedimentary (pieces of other rocks and fossilized organisms); and metamorphic (formed from heat and pressure).</p> <ul style="list-style-type: none"> <li>• <b>Land and Water</b></li> <li>• TG: L06.Exts (pp67-68)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L03 (pp19-26)</li> <li>• TG: L15 (pp103-112)</li> <li>• <b>Stories in Stone</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Ses04-06 (pp47-81)</li> <li>• STC Book: Land and Water: (pp15-18)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.E.6.2.	<p>Identify the physical properties of common earth-forming minerals, including hardness, color, luster, cleavage, and streak color, and recognize the role of minerals in the formation of rocks.</p> <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L04-10 (pp27-78)</li> <li>• TG: L15-17 (pp103-128)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.E.6.3.	<p>Recognize that humans need resources found on Earth and that these are either renewable or nonrenewable.</p> <ul style="list-style-type: none"> <li>• <b>STC Book: Land and Water: (pp47-49)</b></li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.E.6.4.	<p>Describe the basic differences between physical weathering (breaking down of rock by wind, water, ice, temperature change, and plants) and erosion (movement of rock by gravity, wind, water, and ice).</p> <ul style="list-style-type: none"> <li>• <b>Land and Water</b></li> <li>• TG: L03-07 (pp29-84)</li> <li>• TG: L09.Exts (p103)</li> <li>• TG: L10-16 (pp109-182)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act02-03 (pp27-56)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses05 (pp65-73)</li> <li>• <b>STC Book: Land and Water: (pp36-38)</b></li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.E.6.5.	<p>Investigate how technology and tools help to extend the ability of humans to observe very small things and very large things.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act08 (pp97-101)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02 (pp 27-33)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act02 (pp43-47)</li> <li>• TG: Act05-10 (pp61-97)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01 (pp7-17)</li> <li>• <b>On Sandy Shores</b></li> <li>• TG: Act02 (pp27-43)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L01.Exts (p9)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01 (pp15-21)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.9 (pp 152-167)</li> <li>• TG: Ses 3 Reading (pp 1-2)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01 (pp5-13)</li> </ul>

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BENCHMARK / DESCRIPTOR	SC.4.E.6.6.	<p>Identify resources available in Florida (water, phosphate, oil, limestone, silicon, wind, and solar energy).</p> <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L16 (pp113-126)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.P.	Physical Science
BENCHMARK / BIG IDEA	SC.4.P.8.	<p>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 matter has mass. 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.4.P.8.1.	<p>Measure and compare objects and materials based on their physical properties including: mass, shape, volume, color, hardness, texture, odor, taste, attraction to magnets.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-03 (pp54-73)</li> <li>• TG: Act05 (pp80-85)</li> <li>• TG: Act09 (pp102-107)</li> <li>• TG: Act11 (pp114-118)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L03 (pp 23-38)</li> <li>• TG: L05 (pp 45-47)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L12.Exts (pp109-110)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L04.Exts (p35)</li> <li>• TG: L06-07 (pp49-60)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L11.Exts (p91)</li> <li>• TG: L12.Exts (p100)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act03-07 (pp49-79)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L04 (pp35-46)</li> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L10.Exts (pp73-74)</li> <li>• <b>Sound</b></li> <li>• TG: L01-02 (pp3-16)</li> <li>• TG: L04.Exts (pp26-27)</li> <li>• TG: L05.Exts (pp35-36)</li> <li>• TG: L12.Exts (p88)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Post Assessment (pp 1-2)</li> <li>• TG: Ses 1 Pre Assessment (p 1)</li> <li>• TG: Ses 1.1-1.6 (pp 28-121)</li> <li>• TG: Ses 1.9 (pp 152-167)</li> <li>• TG: Ses 2 Pre Assessment (p 1)</li> <li>• TG: Ses 2 Post Assessment (pp 1-2)</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 4.3 (pp 374-393)</li> <li>• STC Book: Floating and Sinking: (pp07-10), (pp24-26), (pp36-40)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.P.8.4.	<p>Investigate and describe that magnets can attract magnetic materials and attract and repel other magnets.</p> <ul style="list-style-type: none"> <li>• <b>Rocks and Minerals</b></li> <li>• TG: L11.Exts (p80)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.P.	Physical Science
BENCHMARK / BIG IDEA	SC.4.P.9.	<b>Changes in Matter</b> - A. Matter can undergo a variety of changes. B. Matter can be changed physically or chemically.
BENCHMARK / DESCRIPTOR	SC.4.P.9.1.	<p>Identify some familiar changes in materials that result in other materials with different characteristics, such as decaying animal or plant matter, burning, rusting, and cooking.</p> <ul style="list-style-type: none"> <li>• <b>Chemical Tests</b></li> <li>• TG: L07 (pp69-78)</li> <li>• TG: L10.Exts (p97)</li> <li>• TG: L11.Exts (pp103-104)</li> <li>• TG: L15 (pp135-148)</li> <li>• TG: L16.Exts (pp152-153)</li> <li>• TG: L17 (pp155-158)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01.Exts (p6)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-02 (pp9-28)</li> <li>• TG: Ses04 (pp41-46)</li> <li>• <b>STC Book: Electric Circuits: (pp13-16)</b></li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.P.	Physical Science
BENCHMARK / BIG IDEA	SC.4.P.10.	<b>Forms of Energy</b> - 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.4.P.10.1.	<p>Observe and describe some basic forms of energy, including light, heat, sound, electrical, and the energy of motion.</p> <ul style="list-style-type: none"> <li>• <b>Bubble Festival</b></li> <li>• TG: Act05 (pp80-85)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 12 (pp 81-84)</li> <li>• <b>Chemical Tests</b></li> <li>• TG: L10.Exts (p97)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L06 (pp57-64)</li> <li>• TG: L11-12 (pp101-116)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Sound</li> <li>• TG: L01-17 (pp3-118)</li> <li>• STC Book: Electric Circuits: (pp07-21), (pp24-44), (pp47-61)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.P.10.2.	<p>Investigate and describe that energy has the ability to cause motion or create change.</p> <ul style="list-style-type: none"> <li>• Electric Circuits</li> <li>• TG: L01-17 (pp3-86)</li> <li>• Motion and Design</li> <li>• TG: L06 (pp57-64)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.P.10.3.	<p>Investigate and explain that sound is produced by vibrating objects and that pitch depends on how fast or slow the object vibrates.</p> <ul style="list-style-type: none"> <li>• Building Blocks of Science: Human Bodyworks</li> <li>• TG: Act 12 (pp 81-84)</li> <li>• Sound</li> <li>• TG: L01-17 (pp3-118)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.P.	Physical Science
BENCHMARK / BIG IDEA	SC.4.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.
BENCHMARK / DESCRIPTOR	SC.4.P.11.1.	<p>Recognize that heat flows from a hot object to a cold object and that heat flow may cause materials to change temperature. SC.4.P.11.2 Identify common materials that conduct heat well or poorly.</p> <ul style="list-style-type: none"> <li>• STC Book: Floating and Sinking: (pp48-50)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.P.	Physical Science
BENCHMARK / BIG IDEA	SC.4.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.4.P.12.1.	<p>Recognize that an object in motion always changes its position and may change its direction.</p> <ul style="list-style-type: none"> <li>• Building Blocks of Science: Measure It!</li> <li>• TG: L03 (pp 23-38)</li> <li>• Floating and Sinking</li> <li>• TG: L09 (pp69-78)</li> <li>• Motion and Design</li> <li>• TG: L03-05 (pp25-56)</li> <li>• TG: L07.Exts (pp68-69)</li> <li>• TG: L08-13 (pp73-124)</li> <li>• TG: L15 (pp139-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 1.1 (pp 28-45)</li> </ul>

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		<ul style="list-style-type: none"> <li>TG: Ses 2.1-2.6 (pp 172-281)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.P.12.2.	<p>Investigate and describe that the speed of an object is determined by the distance it travels in a unit of time and that objects can move at different speeds.</p> <ul style="list-style-type: none"> <li><b>Land and Water</b></li> <li>TG: L07 (pp75-84)</li> <li>TG: L13 (pp143-152)</li> <li><b>Motion and Design</b></li> <li>TG: L03-05 (pp25-56)</li> <li>TG: L07-09 (pp65-90)</li> <li>TG: L15-16 (pp139-152)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.L.	Life Science
BENCHMARK / BIG IDEA	SC.4.L.16.	Heredity and Reproduction - A. Offspring of plants and animals are similar to, but not exactly like, their parents or each other. B. Life cycles vary among organisms, but reproduction is a major stage in the life cycle of all organisms.
BENCHMARK / DESCRIPTOR	SC.4.L.16.1.	<p>Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.</p> <ul style="list-style-type: none"> <li><b>Ecosystems</b></li> <li>TG: L02.Exts (p18)</li> <li>TG: L05 (pp53-60)</li> <li><b>Plant Growth and Development</b></li> <li>TG: L01-03 (pp3-24)</li> <li>TG: L08-09 (pp43-54)</li> <li>TG: L11 (pp61-66)</li> <li>TG: L12.Exts (pp68-69)</li> <li>TG: L14.Exts (pp86-87)</li> <li>TG: L16.Exts (pp96-97)</li> <li>TG: L17 (pp99-100)</li> <li><b>STC Book: Microworlds: (pp16-19)</b></li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.L.16.3.	<p>Recognize that animal behaviors may be shaped by heredity and learning.</p> <ul style="list-style-type: none"> <li><b>Aquatic Habitats</b></li> <li>TG: Act02-03 (pp25-43)</li> <li>TG: Act05 (pp61-70)</li> <li>TG: Exts (pp70-78)</li> <li><b>Animal Studies</b></li> <li>TG: L01.Exts (p6)</li> <li>TG: L02.Exts (pp15-16)</li> <li>TG: L03-07 (pp21-86)</li> <li>TG: L09-10 (pp97-114)</li> <li>TG: L12-15 (pp123-164)</li> <li>TG: L16.Exts (p167)</li> <li><b>Plant Growth and Development</b></li> <li>TG: L08.Exts (p44)</li> <li>TG: L11 (pp61-66)</li> <li>TG: L14.Exts (pp86-87)</li> <li><b>Schoolyard Ecology</b></li> <li>TG: Act02-04 (pp21-49)</li> </ul>

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		<ul style="list-style-type: none"> <li>• Terrarium Habitats</li> <li>• TG: Act03-05 (pp23-48)</li> <li>• STC Book: Animal Studies: (pp16-19), (pp22-32), (pp40-42), (pp50-61)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.L.16.4.	<p>Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.</p> <ul style="list-style-type: none"> <li>• Aquatic Habitats</li> <li>• TG: Act04-05 (pp45-70)</li> <li>• Animal Studies</li> <li>• TG: L09.Exts (pp101-102)</li> <li>• Ecosystems</li> <li>• TG: L03.Exts (p29)</li> <li>• TG: L05-06 (pp53-74)</li> <li>• Plant Growth and Development</li> <li>• TG: L10 (pp55-60)</li> <li>• TG: L12 (pp67-70)</li> <li>• TG: L15-16 (pp89-98)</li> <li>• STC Book: Animal Studies: (pp06-08), (pp38-39)</li> <li>• STC Book: Ecosystems: (pp31-34)</li> <li>• STC Book: Food Chemistry: (pp21-23)</li> <li>• STC Book: Microworlds: (pp28-30)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.4.L.	Life Science
BENCHMARK / BIG IDEA	SC.4.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.4.L.17.1.	<p>Compare the seasonal changes in Florida plants and animals to those in other regions of the country.</p> <ul style="list-style-type: none"> <li>• STC Book: Ecosystems: (pp31-34)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.L.17.2.	<p>Explain that animals, including humans, cannot make their own food and that when animals eat plants or other animals, the energy stored in the food source is passed to them.</p> <ul style="list-style-type: none"> <li>• Ecosystems</li> <li>• TG: L04 (pp39-52)</li> <li>• TG: L07 (pp75-82)</li> <li>• TG: L12 (pp117-124)</li> <li>• STC Book: Animal Studies: (pp09-11)</li> <li>• STC Book: Ecosystems: (pp14-16)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.4.L.17.3.	<p>Trace the flow of energy from the Sun as it is transferred along the food chain through the producers to the consumers.</p> <ul style="list-style-type: none"> <li>• Ecosystems</li> <li>• TG: L07 (pp75-82)</li> <li>• TG: L12.Exts (p120)</li> </ul>

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		<ul style="list-style-type: none"> <li>• STC Book: Ecosystems: (pp14-16)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.4.L.17.4.</p>	<p>Recognize ways plants and animals, including humans, can impact the environment.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Ext 08 (p 64)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L08-11 (pp83-116)</li> <li>• <b>Land and Water</b></li> <li>• TG: L14 (pp153-162)</li> <li>• <b>STC Book: Animal Studies:</b> (pp09-11)</li> <li>• <b>STC Book: Ecosystems:</b> (pp31-37), (pp40-42), (pp60-61)</li> <li>• <b>STC Book: Floating and Sinking:</b> (pp48-50)</li> </ul>

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## Grade 5

STANDARD / BODY OF KNOWLEDGE	FL.SC.5.N.	Nature of Science
BENCHMARK / BIG IDEA	SC.5.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.5.N.1.1.	<p>Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations of various types such as: systematic observations, experiments requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables, and graphics, analyze information, make predictions, and defend conclusions.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L02 (pp11-20)</li> <li>• TG: L04-09 (pp37-106)</li> <li>• TG: L11-12 (pp115-134)</li> <li>• TG: L14 (pp143-156)</li> <li>• TG: L16-17 (pp165-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Bubble-ology</b></li> <li>• TG: Act01-06 (pp5-44)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02-06 (pp 27-79)</li> <li>• <b>Color Analyzers</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• TG: Exts (pp38-40)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• TG: Exts (pp63-64)</li> <li>• <b>Environmental Detectives</b></li> <li>• TG: Act01-08 (pp15-208)</li> <li>• <b>Earth, Moon, and Stars</b></li> <li>• TG: Act01-06 (pp3-52)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L01-17 (pp3-171)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L01-16 (pp9-128)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Floating and Sinking</b></li> <li>• TG: L01-17 (pp3-136)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L01-17 (pp3-156)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Life Through Time</b></li> <li>• TG: Ses01-07 (pp13-269)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• TG: Exts (p102)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Messages From Space</b></li> <li>• TG: Act01-05 (pp6-123)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Magnets and Motors</b></li> <li>• TG: L10.Exts (p69)</li> <li>• TG: L14 (pp89-94)</li> <li>• TG: L16-17 (pp99-108)</li> <li>• <b>Measuring Time</b></li> <li>• TG: L02-03 (pp21-42)</li> <li>• TG: L05 (pp49-58)</li> <li>• TG: L07-12 (pp67-122)</li> <li>• TG: L15-16 (pp139-148)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01-17 (pp3-88)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01-17 (pp3-156)</li> <li>• <b>Ocean Currents</b></li> <li>• TG: Act01-07 (pp9-140)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• <b>Only One Ocean</b></li> <li>• TG: Act01-03 (pp15-144)</li> <li>• <b>Paper Towel Testing</b></li> <li>• TG: Ses01-04 (pp7-24)</li> <li>• TG: Exts (p25)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.2-1.3 (pp 46-69)</li> <li>• TG: Ses 1.5 (pp 86-103)</li> <li>• TG: Ses 1.7-1.9 (pp 122-167)</li> <li>• TG: Ses 2.2-2.6 (pp 182-281)</li> </ul>
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		<ul style="list-style-type: none"> <li>• TG: Ses 4.1-4.4 (pp 340-413)</li> <li>• Terrarium Habitats</li> <li>• TG: Act01-05 (pp5-48)</li> <li>• The Technology of Paper</li> <li>• TG: L01-18 (pp19-218)</li> <li>• STC Book: Ecosystems: (pp43-44)</li> <li>• STC Book: Experiments with Plants: (pp57-61)</li> <li>• STC Book: Land and Water: (pp07-18), (pp21-38), (pp41-61)</li> <li>• STC Book: Magnets and Motors: (pp14-16), (pp33-38)</li> <li>• STC Book: The Technology of Paper: (pp16-19)</li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.5.N.1.2.</p>	<p>Explain the difference between an experiment and other types of scientific investigation.</p> <ul style="list-style-type: none"> <li>• Aquatic Habitats</li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• Animal Studies</li> <li>• TG: L01-17 (pp3-172)</li> <li>• Bubble Festival</li> <li>• TG: Act01-12 (pp54-124)</li> <li>• Bubble-ology</li> <li>• TG: Act01-06 (pp5-44)</li> <li>• Building Blocks of Science: Human Bodyworks</li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• Building Blocks of Science: Measure It!</li> <li>• TG: L01-05 (pp 11-47)</li> <li>• Building Blocks of Science: Understanding Cells and DNA</li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• Color Analyzers</li> <li>• TG: Act01-04 (pp5-37)</li> <li>• TG: Exts (pp38-40)</li> <li>• Crime Lab Chemistry</li> <li>• TG: Act01-03 (pp7-62)</li> <li>• TG: Exts (pp63-64)</li> <li>• Environmental Detectives</li> <li>• TG: Act01-08 (pp15-208)</li> <li>• Earth, Moon, and Stars</li> <li>• TG: Act01-06 (pp3-52)</li> <li>• Ecosystems</li> <li>• TG: L01-17 (pp3-171)</li> <li>• Electric Circuits</li> <li>• TG: L01-17 (pp3-86)</li> <li>• Experiments with Plants</li> <li>• TG: L01-16 (pp9-128)</li> <li>• Fingerprinting</li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• Floating and Sinking</li> <li>• TG: L01-17 (pp3-136)</li> <li>• Food Chemistry</li> <li>• TG: L02-14 (pp11-130)</li> <li>• TG: L16 (pp149-154)</li> <li>• GEMS Electric Circuits</li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• Hot Water and Warm Homes from Sunlight</li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• Investigating Artifacts</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Life Through Time</b></li> <li>• TG: Ses01-07 (pp13-269)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• TG: Exts (p102)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Messages From Space</b></li> <li>• TG: Act01-05 (pp6-123)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Magnets and Motors</b></li> <li>• TG: L02-17 (pp11-108)</li> <li>• <b>Measuring Time</b></li> <li>• TG: L02-03 (pp21-42)</li> <li>• TG: L06-16 (pp59-148)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01-17 (pp3-88)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01 (pp3-14)</li> <li>• TG: L03-15 (pp25-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• <b>Ocean Currents</b></li> <li>• TG: Act01-07 (pp9-140)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• <b>Only One Ocean</b></li> <li>• TG: Act01-03 (pp15-144)</li> <li>• <b>Paper Towel Testing</b></li> <li>• TG: Ses01-04 (pp7-24)</li> <li>• TG: Exts (p25)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Technology of Paper</b></li> <li>• TG: L01-18 (pp19-218)</li> <li>• <b>STC Book: Ecosystems:</b> (pp43-44)</li> <li>• <b>STC Book: Electric Circuits:</b> (pp13-16), (pp60-61)</li> <li>• <b>STC Book: Experiments with Plants:</b> (pp14-17), (pp36-40), (pp54-56)</li> <li>• <b>STC Book: Floating and Sinking:</b> (pp60-61)</li> <li>• <b>STC Book: Magnets and Motors:</b> (pp14-16), (pp33-38)</li> <li>• <b>STC Book: Microworlds:</b> (pp23-25)</li> </ul>
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## Carolina™ Curriculum Correlation to Florida Next Generation Sunshine State Standards – Science Grades K-5

		<ul style="list-style-type: none"> <li>• STC Book: Motion and Design: (pp23-28)</li> <li>• STC Book: The Technology of Paper: (pp16-19)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.N.1.3.	<p>Recognize and explain the need for repeated experimental trials.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Ext 05 (p 46)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01 (pp 11-16)</li> <li>• TG: L03 (pp 23-38)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L14.Exts (pp109-110)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L05 (pp39-48)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.N.1.4.	<p>Identify a control group and explain its importance in an experiment.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 06 (pp 49-53)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L03-04 (pp 23-44)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.N.1.5.	<p>Recognize and explain that authentic scientific investigation frequently does not parallel the steps of "the scientific method."</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L01-03 (pp9-38)</li> <li>• TG: L11.Exts (p89)</li> <li>• TG: L12 (pp91-100)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01 (pp13-33)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L17 (pp153-156)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.N.1.6.	<p>Recognize and explain the difference between personal opinion/interpretation and verified observation.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L02 (pp11-20)</li> <li>• TG: L04-09 (pp37-106)</li> <li>• TG: L11-12 (pp115-134)</li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Bubble-ology</b></li> <li>• TG: Act01-06 (pp5-44)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 02-06 (pp 27-79)</li> <li>• <b>Color Analyzers</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• TG: Exts (pp38-40)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Environmental Detectives</b></li> <li>• TG: Act01-08 (pp15-208)</li> <li>• <b>Earth, Moon, and Stars</b></li> <li>• TG: Act01-06 (pp3-52)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L01-17 (pp3-171)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L01-16 (pp9-128)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L01-17 (pp3-136)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L02-16 (pp11-154)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Life Through Time</b></li> <li>• TG: Ses01-07 (pp13-269)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• TG: Exts (p102)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Messages From Space</b></li> <li>• TG: Act01-05 (pp6-123)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Magnets and Motors</b></li> <li>• TG: L14 (pp89-94)</li> <li>• TG: L16 (pp99-102)</li> <li>• <b>Measuring Time</b></li> <li>• TG: L03 (pp31-42)</li> <li>• TG: L05 (pp49-58)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01-17 (pp3-88)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01-15 (pp3-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• <b>Ocean Currents</b></li> <li>• TG: Act01-07 (pp9-140)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> </ul>
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		<ul style="list-style-type: none"> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• <b>Only One Ocean</b></li> <li>• TG: Act01-03 (pp15-144)</li> <li>• <b>Paper Towel Testing</b></li> <li>• TG: Ses01-04 (pp7-24)</li> <li>• TG: Exts (p25)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.1-1.9 (pp 28-167)</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Technology of Paper</b></li> <li>• TG: L01-18 (pp19-218)</li> <li>• <b>STC Book: Ecosystems:</b> (pp43-44)</li> <li>• <b>STC Book: Experiments with Plants:</b> (pp57-61)</li> <li>• <b>STC Book: Land and Water:</b> (pp07-18), (pp21-38), (pp41-61)</li> <li>• <b>STC Book: Magnets and Motors:</b> (pp14-16), (pp33-38)</li> <li>• <b>STC Book: The Technology of Paper:</b> (pp16-19)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.5.N.</b>	<b>Nature of Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.5.N.2.</b>	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.
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.5.N.2.1.</b>	<p>Recognize and explain that science is grounded in empirical observations that are testable; explanation must always be linked with evidence.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act01-05 (pp13-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L02 (pp11-20)</li> <li>• TG: L04-09 (pp37-106)</li> <li>• TG: L11-12 (pp115-134)</li> <li>• TG: L17 (pp169-172)</li> <li>• <b>Bubble Festival</b></li> <li>• TG: Act01-12 (pp54-124)</li> <li>• <b>Bubble-ology</b></li> <li>• TG: Act01-06 (pp5-44)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01-05 (pp 11-47)</li> </ul>

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		<ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01-06 (pp 21-79)</li> <li>• <b>Color Analyzers</b></li> <li>• TG: Act01-04 (pp5-37)</li> <li>• TG: Exts (pp38-40)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01-03 (pp7-62)</li> <li>• <b>Environmental Detectives</b></li> <li>• TG: Act01-08 (pp15-208)</li> <li>• <b>Earth, Moon, and Stars</b></li> <li>• TG: Act01-06 (pp3-52)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L01-17 (pp3-171)</li> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L01-16 (pp9-128)</li> <li>• <b>Fingerprinting</b></li> <li>• TG: Ses01-03 (pp7-25)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L01-17 (pp3-136)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L02-16 (pp11-154)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-10 (pp13-168)</li> <li>• <b>Hot Water and Warm Homes from Sunlight</b></li> <li>• TG: Ses01-05 (pp7-41)</li> <li>• <b>Investigating Artifacts</b></li> <li>• TG: Ses01-06 (pp7-63)</li> <li>• TG: Exts (pp68-69)</li> <li>• <b>Life Through Time</b></li> <li>• TG: Ses01-07 (pp13-269)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-17 (pp3-186)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act01-10 (pp37-97)</li> <li>• TG: Exts (p102)</li> <li>• <b>Mystery Festival</b></li> <li>• TG: Ses01-05 (pp109-197)</li> <li>• <b>Messages From Space</b></li> <li>• TG: Act01-05 (pp6-123)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Magnets and Motors</b></li> <li>• TG: L14 (pp89-94)</li> <li>• TG: L16 (pp99-102)</li> <li>• <b>Measuring Time</b></li> <li>• TG: L03 (pp31-42)</li> <li>• TG: L05 (pp49-58)</li> <li>• <b>Microworlds</b></li> <li>• TG: L01-17 (pp3-88)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L01-15 (pp3-144)</li> <li>• TG: L17 (pp153-156)</li> <li>• <b>Ocean Currents</b></li> <li>• TG: Act01-07 (pp9-140)</li> <li>• <b>Of Cabbages and Chemistry</b></li> <li>• TG: Ses01-04 (pp9-46)</li> <li>• TG: Exts (pp49-51)</li> </ul>
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## Carolina™ Curriculum Correlation to Florida Next Generation Sunshine State Standards – Science Grades K-5

		<ul style="list-style-type: none"> <li>• <b>Oobleck: What Do Scientists Do?</b></li> <li>• TG: Ses01-04 (pp4-18)</li> <li>• TG: Exts (p19)</li> <li>• <b>Only One Ocean</b></li> <li>• TG: Act01-03 (pp15-144)</li> <li>• <b>Paper Towel Testing</b></li> <li>• TG: Ses01-04 (pp7-24)</li> <li>• TG: Exts (p25)</li> <li>• <b>Stories in Stone</b></li> <li>• TG: Ses01-08 (pp15-113)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act01-05 (pp7-59)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.2 (pp 46-55)</li> <li>• TG: Ses 2.2 (pp 182-201)</li> <li>• TG: Ses 2.4-2.6 (pp 226-281)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act01-05 (pp5-48)</li> <li>• <b>The Technology of Paper</b></li> <li>• TG: L01-18 (pp19-218)</li> <li>• <b>STC Book: Ecosystems:</b> (pp43-44)</li> <li>• <b>STC Book: Land and Water:</b> (pp07-18), (pp21-38), (pp41-61)</li> <li>• <b>STC Book: Magnets and Motors:</b> (pp14-16), (pp33-38)</li> <li>• <b>STC Book: The Technology of Paper:</b> (pp16-19)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.N.2.2.	<p>Recognize and explain that when scientific investigations are carried out, the evidence produced by those investigations should be replicable by others.</p> <ul style="list-style-type: none"> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Ext 05 (p 46)</li> <li>• <b>Building Blocks of Science: Measure It!</b></li> <li>• TG: L01 (pp 11-16)</li> <li>• TG: L03 (pp 23-38)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L14.Exts (pp109-110)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L05 (pp39-48)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.5.E.5.	Earth in Space and Time - Humans continue to explore Earth's place in space. Gravity and energy influence the formation of galaxies, including our own Milky Way Galaxy, stars, the Solar System, and Earth. Humankind's need to explore continues to lead to the development of knowledge and understanding of our Solar System.
BENCHMARK / DESCRIPTOR	SC.5.E.5.1.	<p>Recognize that a galaxy consists of gas, dust, and many stars, including any objects orbiting the stars. Identify our home galaxy as the Milky Way.</p> <ul style="list-style-type: none"> <li>• <b>Messages From Space</b></li> <li>• TG: Act02-03 (pp27-87)</li> <li>• TG: Exts (p38)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.6 (pp 104-121)</li> </ul>

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BENCHMARK / DESCRIPTOR	SC.5.E.5.2.	<p>Recognize the major common characteristics of all planets and compare/contrast the properties of inner and outer planets.</p> <ul style="list-style-type: none"> <li>• <b>Messages From Space</b></li> <li>• TG: Act02-03 (pp27-87)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act04 (pp41-51)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1.2 (pp 46-55)</li> <li>• TG: Ses 1.4-1.9 (pp 70-167)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.E.5.3.	<p>Distinguish among the following objects of the Solar System -- Sun, planets, moons, asteroids, comets -- and identify Earth's position in it.</p> <ul style="list-style-type: none"> <li>• <b>Earth, Moon, and Stars</b></li> <li>• TG: Act02-03 (pp9-24)</li> <li>• <b>Messages From Space</b></li> <li>• TG: Act02-03 (pp27-87)</li> <li>• TG: Act05 (pp96-123)</li> <li>• <b>Moons of Jupiter</b></li> <li>• TG: Act01-05 (pp7-64)</li> <li>• <b>Measuring Time</b></li> <li>• TG: L05-06 (pp49-66)</li> <li>• <b>Space Science for Grades 3-5</b></li> <li>• TG: Ses 1 Pre Assessment (p 1)</li> <li>• TG: Ses 1 Post Assessment (pp 1-2)</li> <li>• TG: Ses 1.1-1.2 (pp 28-55)</li> <li>• TG: Ses 1.4-1.9 (pp 70-167)</li> <li>• TG: Ses 2.4 Reading (pp 1-2)</li> <li>• TG: Ses 2.6 (pp 260-281)</li> <li>• TG: Ses 3.1-3.4 (pp 286-335)</li> <li>• TG: Ses 4 Pre Assessment (pp 1-2)</li> <li>• TG: Ses 4 Post Assessment (pp 1-2)</li> <li>• TG: Ses 4.1-4.5 (pp 340-423)</li> <li>• <b>STC Book: Measuring Time:</b> (pp15-17)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.E.	Earth and Space Science
BENCHMARK / BIG IDEA	SC.5.E.7.	Earth Systems and Patterns - Humans continue to explore the interactions among water, air, and land. Air and water are in constant motion that results in changing conditions that can be observed over time.
BENCHMARK / DESCRIPTOR	SC.5.E.7.1.	<p>Create a model to explain the parts of the water cycle. Water can be a gas, a liquid, or a solid and can go back and forth from one state to another.</p> <ul style="list-style-type: none"> <li>• <b>Bubble-ology</b></li> <li>• TG: Act03-04 (pp19-32)</li> <li>• <b>Crime Lab Chemistry</b></li> <li>• TG: Act01 (pp7-27)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L11.Exts (p114)</li> <li>• <b>Food Chemistry</b></li> <li>• TG: L12.Exts (pp112-113)</li> <li>• <b>Land and Water</b></li> <li>• TG: L01-03 (pp3-36)</li> <li>• TG: L06 (pp63-74)</li> </ul>

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		<ul style="list-style-type: none"> <li>• The Technology of Paper</li> <li>• TG: L04 (pp61-74)</li> <li>• STC Book: Floating and Sinking: (pp24-26), (pp48-50)</li> <li>• STC Book: Land and Water: (pp21-25)</li> <li>•</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.E.7.2.	<p>Recognize that the ocean is an integral part of the water cycle and is connected to all of Earth's water reservoirs via evaporation and precipitation processes.</p> <ul style="list-style-type: none"> <li>• Land and Water</li> <li>• TG: L01-03 (pp3-36)</li> <li>• TG: L06 (pp63-74)</li> <li>• Ocean Currents</li> <li>• TG: Act02 (pp29-45)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.P.	Physical Science
BENCHMARK / BIG IDEA	SC.5.P.8.	<p>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 matter has mass. 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.5.P.8.1.	<p>Compare and contrast the basic properties of solids, liquids, and gases, such as mass, volume, color, texture, and temperature.</p> <ul style="list-style-type: none"> <li>• Bubble Festival</li> <li>• TG: Act03 (pp66-73)</li> <li>• TG: Act05 (pp80-85)</li> <li>• Bubble-ology</li> <li>• TG: Act01-02 (pp5-16)</li> <li>• Building Blocks of Science: Measure It!</li> <li>• TG: L03-05 (pp 23-47)</li> <li>• Floating and Sinking</li> <li>• TG: L04.Exts (p35)</li> <li>• TG: L10 (pp79-86)</li> <li>• TG: L11.Exts (p91)</li> <li>• TG: L12 (pp95-102)</li> <li>• Land and Water</li> <li>• TG: L16 (pp173-182)</li> <li>• Microscopic Explorations</li> <li>• TG: Act03-04 (pp49-59)</li> <li>• Motion and Design</li> <li>• TG: L04 (pp35-46)</li> <li>• Oobleck: What Do Scientists Do?</li> <li>• TG: Ses01 (pp4-8)</li> <li>• Space Science for Grades 3-5</li> <li>• TG: Ses 2.1-2.6 (pp 172-281)</li> <li>• The Technology of Paper</li> <li>• TG: L01 (pp19-28)</li> <li>• STC Book: Floating and Sinking: (pp07-10), (pp36-42)</li> </ul>

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		<ul style="list-style-type: none"> <li>STC Book: The Technology of Paper: (pp58-61)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.P.8.2.	<p>Investigate and identify materials that will dissolve in water and those that will not and identify the conditions that will speed up or slow down the dissolving process.</p> <ul style="list-style-type: none"> <li>Crime Lab Chemistry</li> <li>TG: Act02-03 (pp29-62)</li> <li>Floating and Sinking</li> <li>TG: L13 (pp103-112)</li> <li>Land and Water</li> <li>TG: L03.Exts (p35)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.P.8.3.	<p>Demonstrate and explain that mixtures of solids can be separated based on observable properties of their parts such as particle size, shape, color, and magnetic attraction.</p> <ul style="list-style-type: none"> <li>Crime Lab Chemistry</li> <li>TG: Act01-03 (pp7-62)</li> <li>TG: Exts (pp63-64)</li> <li>Environmental Detectives</li> <li>TG: Act07 (pp185-202)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.P.	Physical Science
BENCHMARK / BIG IDEA	SC.5.P.9.	<b>Changes</b> in Matter - A. Matter can undergo a variety of changes. B. Matter can be changed physically or chemically.
BENCHMARK / DESCRIPTOR	SC.5.P.9.1.	<p>Investigate and describe that many physical and chemical changes are affected by temperature.</p> <ul style="list-style-type: none"> <li>Bubble Festival</li> <li>TG: Act10 (pp108-113)</li> <li>Land and Water</li> <li>TG: L02.Exts (p19)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.P.	Physical Science
BENCHMARK / BIG IDEA	SC.5.P.10.	<b>Forms of Energy</b> - 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.5.P.10.1.	<p>Investigate and describe some basic forms of energy, including light, heat, sound, electrical, chemical, and mechanical.</p> <ul style="list-style-type: none"> <li>Bubble Festival</li> <li>TG: Act05 (pp80-85)</li> <li>Building Blocks of Science: Human Bodyworks</li> <li>TG: Act 12 (pp 81-84)</li> <li>Electric Circuits</li> <li>TG: L01-17 (pp3-86)</li> <li>GEMS Electric Circuits</li> <li>TG: Ses01-11 (pp13-175)</li> <li>Magnets and Motors</li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: L14 (pp89-94)</li> <li>• TG: L16-17 (pp99-108)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L06 (pp57-64)</li> <li>• TG: L11-12 (pp101-116)</li> <li>• STC Book: Electric Circuits: (pp07-21), (pp24-44), (pp47-61)</li> <li>• STC Book: Magnets and Motors: (pp41-44)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.P.10.2.	<p>Investigate and explain that energy has the ability to cause motion or create change.</p> <ul style="list-style-type: none"> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Motion and Design</b></li> <li>• TG: L06 (pp57-64)</li> <li>• TG: L11-12 (pp101-116)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.P.10.3.	<p>Investigate and explain that an electrically-charged object can attract an uncharged object and can either attract or repel another charged object without any contact between the objects.</p> <ul style="list-style-type: none"> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>Magnets and Motors</b></li> <li>• TG: L12-13 (pp77-88)</li> <li>• TG: L15-17 (pp95-108)</li> <li>• STC Book: Magnets and Motors: (pp28-29)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.P.	Physical Science
BENCHMARK / BIG IDEA	SC.5.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.
BENCHMARK / DESCRIPTOR	SC.5.P.11.1.	<p>Investigate and illustrate the fact that the flow of electricity requires a closed circuit (a complete loop).</p> <ul style="list-style-type: none"> <li>• <b>Electric Circuits</b></li> <li>• TG: L01-17 (pp3-86)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses01-11 (pp13-175)</li> <li>• <b>Magnets and Motors</b></li> <li>• TG: L07 (pp43-48)</li> <li>• TG: L17 (pp103-108)</li> <li>• STC Book: Electric Circuits: (pp13-16), (pp29-33), (pp39-44)</li> <li>• STC Book: Magnets and Motors: (pp33-38), (pp58-59)</li> </ul>
BENCHMARK / DESCRIPTOR	SC.5.P.11.2.	<p>Identify and classify materials that conduct electricity and materials that do not.</p> <ul style="list-style-type: none"> <li>• <b>Electric Circuits</b></li> <li>• TG: L07 (pp39-44)</li> <li>• <b>GEMS Electric Circuits</b></li> <li>• TG: Ses02-03 (pp35-87)</li> </ul>

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		<ul style="list-style-type: none"> <li>TG: Ses05 (pp111-119)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.5.P.</b>	<b>Physical Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.5.P.13.</b>	<b>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.</b>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.5.P.13.1.</b>	<p>Identify familiar forces that cause objects to move, such as pushes or pulls, including gravity acting on falling objects.</p> <ul style="list-style-type: none"> <li><b>Building Blocks of Science: Measure It!</b></li> <li>TG: L03 (pp 23-38)</li> <li><b>Earth, Moon, and Stars</b></li> <li>TG: Act01 (pp3-8)</li> <li><b>Floating and Sinking</b></li> <li>TG: L09 (pp69-78)</li> <li><b>Motion and Design</b></li> <li>TG: L03-05 (pp25-56)</li> <li>TG: L07.Exts (pp68-69)</li> <li>TG: L08-13 (pp73-124)</li> <li>TG: L15 (pp139-144)</li> <li>TG: L17 (pp153-156)</li> <li><b>Space Science for Grades 3-5</b></li> <li>TG: Ses 1.1 (pp 28-45)</li> <li>TG: Ses 2.1-2.6 (pp 172-281)</li> </ul>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.5.P.13.2.</b>	<p>Investigate and describe that the greater the force applied to it, the greater the change in motion of a given object.</p> <ul style="list-style-type: none"> <li><b>Motion and Design</b></li> <li>TG: L04-05 (pp35-56)</li> </ul>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.5.P.13.3.</b>	<p>Investigate and describe that the more mass an object has, the less effect a given force will have on the object's motion.</p> <ul style="list-style-type: none"> <li><b>Motion and Design</b></li> <li>TG: L04-05 (pp35-56)</li> </ul>
<b>STANDARD / BODY OF KNOWLEDGE</b>	<b>FL.SC.5.L.</b>	<b>Life Science</b>
<b>BENCHMARK / BIG IDEA</b>	<b>SC.5.L.14.</b>	<b>Organization and Development of Living Organisms - A. All plants and animals, including humans, are alike in some ways and different in others. B. All plants and animals, including humans, have internal parts and external structures that function to keep them alive and help them grow and reproduce. C. Humans can better understand the natural world through careful observation.</b>
<b>BENCHMARK / DESCRIPTOR</b>	<b>SC.5.L.14.1.</b>	<p>Identify the organs in the human body and describe their functions, including the skin, brain, heart, lungs, stomach, liver, intestines, pancreas, muscles and skeleton, reproductive organs, kidneys, bladder, and sensory organs.</p> <ul style="list-style-type: none"> <li><b>Animal Studies</b></li> <li>TG: L13 (pp135-142)</li> <li><b>Building Blocks of Science: Human Bodyworks</b></li> </ul>

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		<ul style="list-style-type: none"> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• TG: Post Assessment (pp 85-88)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01 (pp 21-26)</li> <li>• <b>Floating and Sinking</b></li> <li>• TG: L08 (pp61-68)</li> <li>• <b>Microworlds</b></li> <li>• TG: L02 (pp9-14)</li> <li>• <b>STC Book: Floating and Sinking: (pp60-61)</b></li> </ul>
<p>BENCHMARK / DESCRIPTOR</p>	<p>SC.5.L.14.2.</p>	<p>Compare and contrast the function of organs and other physical structures of plants and animals, including humans, for example: some animals have skeletons for support -- some with internal skeletons others with exoskeletons -- while some plants have stems for support.</p> <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act02-03 (pp25-43)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L03-06 (pp21-74)</li> <li>• TG: L08 (pp87-96)</li> <li>• TG: L13-15 (pp135-164)</li> <li>• TG: L16.Exts (p167)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Pre Assessment (pp 13-17)</li> <li>• TG: Act 01-12 (pp 19-84)</li> <li>• TG: Post Assessment (pp 85-88)</li> <li>• <b>Building Blocks of Science: Understanding Cells and DNA</b></li> <li>• TG: Act 01 (pp 21-26)</li> <li>• <b>Experiments with Plants</b></li> <li>• TG: L01-02 (pp9-30)</li> <li>• TG: L04-09 (pp39-80)</li> <li>• TG: L12-16 (pp91-128)</li> <li>• <b>Life Through Time</b></li> <li>• TG: Ses03-06 (pp101-234)</li> <li>• <b>Land and Water</b></li> <li>• TG: L14.Exts (p156)</li> <li>• <b>Microscopic Explorations</b></li> <li>• TG: Act08-10 (pp81-97)</li> <li>• <b>Only One Ocean</b></li> <li>• TG: Act02 (pp43-87)</li> <li>• <b>Schoolyard Ecology</b></li> <li>• TG: Act02 (pp21-31)</li> <li>• TG: Act04 (pp43-49)</li> <li>• <b>Terrarium Habitats</b></li> <li>• TG: Act03-05 (pp23-48)</li> <li>• <b>STC Book: Animal Studies: (pp06-08), (pp16-19)</b></li> <li>• <b>STC Book: Ecosystems: (pp31-34)</b></li> <li>• <b>STC Book: Electric Circuits: (pp11-12), (pp47-49)</b></li> <li>• <b>STC Book: Experiments with Plants: (pp07-13), (pp26-33)</b></li> <li>• <b>STC Book: Floating and Sinking: (pp54-61)</b></li> <li>• <b>STC Book: Measuring Time: (pp59-61)</b></li> <li>• <b>STC Book: Microworlds: (pp31-33), (pp40-43), (pp58-61)</b></li> <li>• <b>STC Book: Motion and Design: (pp07-09)</b></li> </ul>

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STANDARD / BODY OF KNOWLEDGE	FL.SC.5.L.	Life Science
BENCHMARK / BIG IDEA	SC.5.L.15.	Diversity and Evolution of Living <b>Organisms</b> - A. Earth is home to a great diversity of living things, but changes in the environment can affect their survival. B. Individuals of the same kind often differ in their characteristics and sometimes the differences give individuals an advantage in surviving and reproducing.
BENCHMARK / DESCRIPTOR	SC.5.L.15.1.	Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations. <ul style="list-style-type: none"> <li>• <b>Animal Studies</b></li> <li>• TG: L11.Exts (p119)</li> <li>• TG: L13.Exts (p138)</li> <li>• TG: L14.Exts (p145)</li> <li>• TG: L16.Exts (p167)</li> <li>• <b>Environmental Detectives</b></li> <li>• TG: Act01-07 (pp15-202)</li> <li>• <b>Life Through Time</b></li> <li>• TG: Ses05-07 (pp173-269)</li> <li>• <b>Only One Ocean</b></li> <li>• TG: Act03 (pp89-144)</li> <li>• <b>STC Book: Animal Studies:</b> (pp06-11), (pp16-19), (pp30-32), (pp40-42), (pp45-49)</li> <li>• <b>STC Book: Ecosystems:</b> (pp11-13)</li> <li>• <b>STC Book: Electric Circuits:</b> (pp47-49)</li> <li>• <b>STC Book: Experiments with Plants:</b> (pp11-13)</li> <li>• <b>STC Book: Floating and Sinking:</b> (pp60-61)</li> <li>• <b>STC Book: Motion and Design:</b> (pp14-17)</li> </ul>
STANDARD / BODY OF KNOWLEDGE	FL.SC.5.L.	Life Science
BENCHMARK / BIG IDEA	SC.5.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.5.L.17.1.	Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics. <ul style="list-style-type: none"> <li>• <b>Aquatic Habitats</b></li> <li>• TG: Act02-03 (pp25-43)</li> <li>• TG: Act05 (pp61-70)</li> <li>• TG: Exts (pp70-78)</li> <li>• <b>Animal Studies</b></li> <li>• TG: L01-16 (pp3-168)</li> <li>• <b>Building Blocks of Science: Human Bodyworks</b></li> <li>• TG: Ext 01 (p 21)</li> <li>• TG: Ext 04 (p 41)</li> <li>• TG: Ext 12 (p 83)</li> <li>• <b>Ecosystems</b></li> <li>• TG: L03.Exts (p29)</li> <li>• TG: L05-06 (pp53-74)</li> <li>• <b>Experiments with Plants</b></li> </ul>

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	<ul style="list-style-type: none"><li>• TG: L01-02 (pp9-30)</li><li>• TG: L04-009 (pp39-80)</li><li>• TG: L12-16 (pp91-128)</li><li>• <b>Life Through Time</b></li><li>• TG: Ses02-07 (pp37-269)</li><li>• <b>Land and Water</b></li><li>• TG: L14.Exts (p156)</li><li>• <b>Microscopic Explorations</b></li><li>• TG: Act08-10 (pp81-97)</li><li>• <b>Only One Ocean</b></li><li>• TG: Act02 (pp43-87)</li><li>• <b>Schoolyard Ecology</b></li><li>• TG: Act02-04 (pp21-49)</li><li>• <b>Terrarium Habitats</b></li><li>• TG: Act03-05 (pp23-48)</li><li>• <b>STC Book: Animal Studies:</b> (pp06-11), (pp16-19), (pp22-32), (pp45-52)</li><li>• <b>STC Book: Ecosystems:</b> (pp11-13), (pp31-34)</li><li>• <b>STC Book: Electric Circuits:</b> (pp11-12), (pp47-49)</li><li>• <b>STC Book: Experiments with Plants:</b> (pp07-13), (pp20-21), (pp26-33)</li><li>• <b>STC Book: Floating and Sinking:</b> (pp51-61)</li><li>• <b>STC Book: Food Chemistry:</b> (pp21-23)</li><li>• <b>STC Book: Measuring Time:</b> (pp59-61)</li><li>• <b>STC Book: Microworlds:</b> (pp28-33), (pp40-43), (pp58-61)</li><li>• <b>STC Book: Motion and Design:</b> (pp07-09), (pp14-17)</li></ul>
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