

**Correlation of the STC PROGRAM™ and GEMS®
with**

Georgia Performance Standards



**Kindergarten
Course 41.01100 / Science**

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World-Class Support for Science & Math

Correlation of the **STC PROGRAM™** and **Great Explorations in Math and Science®** With **Georgia Performance Standards**

The following STC PROGRAM™ and GEMS® Units are recommended based on the Georgia Performance Standards. Provided for each grade level, are the units that most strongly align with the content objectives. Other STC PROGRAM™ and GEMS® Units may also match objectives within each grade level.

GRADE	STC PROGRAM™	GEMS®
Kindergarten	<ul style="list-style-type: none"> •Comparing and Measuring •Solids and Liquids 	<ul style="list-style-type: none"> •Eggs, Eggs, Everywhere •Sifting Through Science
1 st Grade	<ul style="list-style-type: none"> •Organisms •Weather 	<ul style="list-style-type: none"> •Ant Homes Under the Ground •Penguins and Their Young
2 nd Grade	<ul style="list-style-type: none"> •Changes •Plant Growth and Development •The Life Cycle of Butterflies 	<ul style="list-style-type: none"> •Buzzing a Hive •Involving Dissolving
3 rd Grade	<ul style="list-style-type: none"> •Animal Studies •Rocks and Minerals •Soils 	<ul style="list-style-type: none"> •On Sandy Shores •Terrarium Habitats
4 th Grade	<ul style="list-style-type: none"> •Ecosystems •Motion and Design •Sound 	<ul style="list-style-type: none"> •Aquatic Habitats •Bubble Festival •Space Science Sequence
5 th Grade	<ul style="list-style-type: none"> •Floating and Sinking •Land and Water •Magnets and Motors •Microworlds 	<ul style="list-style-type: none"> • Microscopic Explorations
6 th Grade	<ul style="list-style-type: none"> • Catastrophic Events • Earth in Space 	<ul style="list-style-type: none"> • Earth, Moon, and Stars • Ocean Currents • Plate Tectonics
7 th Grade	<ul style="list-style-type: none"> • Human Body Systems • Organisms–From Macro to Micro 	<ul style="list-style-type: none"> • Environmental Detectives
8 th Grade	<ul style="list-style-type: none"> • Energy, Machines, and Motion • Properties of Matter 	<ul style="list-style-type: none"> • Color Analyzers • Crime Lab Chemistry • Invisible Universe

CORRELATION TO THE GEORGIA PERFORMANCE STANDARDS

Subject Area: Science **State-Funded Course:** 41.01100 Science/Grade K

Textbook Title: Science and Technology for Children® (STC®) and Great Explorations in Math and Science (GEMS®)

Publisher: Carolina Biological Supply Company

*The Georgia Performance Standards for grades K-12 Science and 9-12 Mathematics may be accessed on-line at
<http://www.georgiastandards.org/>.*

Standard (Cite Number)	Standard (Cite specific standard)	Where Taught (If print component, cite page number; if non-print, cite appropriate location.)
SKCS1. SKCS1.a.	Habits of Mind Raise questions about the world around you and be willing to seek answers to some of the questions by making careful observations (5 senses) and trying things out.	STC® Comparing and Measuring TG: L01-L17 (pp3-120) Solids and Liquids TG: L01-L16 (pp3-136) GEMS® Eggs, Eggs, Everywhere TG: Act01-4 (pp5-47) Sifting Through Science TG: Act01-4 (pp7-56)
SKCS2. SKCS2.b.	Habits of Mind Make quantitative estimates of nonstandard measurements (blocks, counters) and check by measuring.	STC® Comparing and Measuring TG: L01-L17 (pp3-120) KIDS DISCOVER Reader Solids and Liquids TG: L09.Exts (p73)
SKCS3 SKCS3.a.	Habits of Mind Use ordinary hand tools and instruments to construct, measure (for example: balance scales to determine heavy/light, weather data, nonstandard units for length), and look at objects (for example: magnifiers to look at rocks and soils).	STC® Solids and Liquids TG: L11 (pp87-94) GEMS® Eggs, Eggs, Everywhere TG: Act01-4 (pp5-47) Sifting Through Science TG: Act01-4 (pp7-56)

<p>SKCS3.b.</p> <p>SKCS4. SKCS4.b.</p> <p>SKCS4.c.</p>	<p>Make something that can actually be used to perform a task, using paper, cardboard, wood, plastic, metal, or existing objects (for example: paper plate day and night sky models).</p> <p>Describe changes in size, weight, color, or movement, and note which of their other qualities remains the same (for example, playing 'Follow the Leader' and noting the changes).</p> <p>Habits of Mind Compare very different sizes (large/small), ages (parent/baby), speeds (fast/slow), and weights (heavy/light) of both manmade and natural things.</p>	<p>GEMS® Sifting Through Science TG: Act01-4 (pp7-56)</p> <p>GEMS® Sifting Through Science TG: Act01-4 (pp7-56)</p> <p>STC® Comparing and Measuring TG: L01-L17 (pp3-120) Solids and Liquids T TG: L01-L17 (pp3-140)</p> <p>GEMS® Eggs, Eggs, Everywhere TG: Act01 (pp5-15)</p>
<p>SKCS5. SKCS5.a.</p> <p>SKCS5.b.</p> <p>SKCS6. SKCS6.a.</p>	<p>Habits of Mind Describe and compare things in terms of number, shape, texture, size, weight, color, and motion.</p> <p>Begin to draw pictures that portray features of the thing being described.</p> <p>The Nature of Science In doing science, it is often helpful to work with a team and to share findings with others.</p>	<p>STC® Comparing and Measuring TG: L01-L17 (pp3-120) Solids and Liquids TG: L01.Exts (pp7-8), L02-L17 (pp11-140)</p> <p>GEMS® Eggs, Eggs, Everywhere TG: Act01 (pp5-15), Act04 (pp41-47)</p> <p>STC® Comparing and Measuring TG: L02 (pp11-16) Solids and Liquids TG: L01.Exts (pp7-8), L03-4 (pp19-40), L05.Exts (pp43-45), L06 (pp47-54), L16 (pp131-136)</p> <p>GEMS® Eggs, Eggs, Everywhere TG: Act01-4 (pp5-47) Sifting Through Science TG: Act01-4 (pp7-56)</p> <p>STC® Comparing and Measuring TG: L02-03 (pp.11-22), L07-08 (pp. 49-64.) L12 (pp. 81-86)</p>

SKCS6.b.	Tools such as rulers, magnifiers, and balance scales often give more information about things than can be obtained by just observing things without help.	STC® Solids and Liquids TG: L11 (pp87-94)
SKCS6.c.	Much can be learned about plants and animals by observing them closely, but care must be taken to know the needs of living things and how to provide for them (classroom pets).	STC® Comparing and Measuring TG: L01-L04 (pp3-30), L12 (pp81-86) L17 (pp117-120)
SKE2.		Solids and Liquids TG: L01.Exts (pp7-8)
SKE2.a.	Earth Science Use senses to observe and group rocks by physical attributes such as large/small, heavy/light, smooth/rough, dark/light, etc.	STC® Solids and Liquids TG: L04.Exts (p34)
SKP1.	Physical Science Compare and sort materials of different composition (common materials include clay, cloth, paper, plastic, etc.).	STC® Comparing and Measuring TG: L05-L11(pp31-80), L13-L16 (pp87-116)
SKP1.a		Solids and Liquids TG: L01.Exts (pp7-8), : L02-L17 (pp11-140)
SKP1.b.	Use senses to classify common materials, such as buttons or swatches of cloth, according to their physical attributes (color, size, shape, weight, texture, buoyancy, flexibility).	STC® Solids and Liquids TG: L01.Exts (pp7-8), L02-L17 (pp11-140)
SKP2.	Physical Science Sort objects into categories according to their motion (straight, zigzag, round and round, back and forth, fast and slow, and motionless).	Comparing and Measuring KIDS DISCOVER Reader
SKP2.a.		STC® Solids and Liquids TG: L03-4 (pp19-40), L05.Exts (pp43-45) L06.Exts (pp51-52), L09 (pp69-80)
SKP2.b.	Push, pull, and roll common objects and describe their motions.	STC® Solids and Liquids TG: L03 (pp19-28), L04 (pp29-40), L05.Exts (pp43-45) L06.Exts (pp51-52), L09 (pp69-80)
		GEMS® Eggs, Eggs, Everywhere TG: Act04 (pp41-47)

<p>SKL1.</p>	<p>Life Science Group plants according to their observable features such as appearance, size, etc.</p>	<p>STC® Comparing and Measuring TG: L12.Exts (p84)</p>
<p>SKL2.</p>	<p>Life Science</p>	
<p>SKL2.a.</p>	<p>Explain the similarities and differences in animals (color, size, appearance, etc.).</p>	<p>GEMS® Eggs, Eggs, Everywhere TG: Act01 (pp5-15), Act03-4 (pp31-47)</p>
<p>SKL2.b.</p>	<p>Explain the similarities and differences in plants (color, size, appearance, etc.).</p>	<p>STC® Comparing and Measuring TG: L12.Exts (p84) GEMS® Eggs, Eggs, Everywhere TG: Act01-4 (pp5-47)</p>
<p>SKL2.c.</p>	<p>Recognize the similarities and differences between a parent and a baby.</p>	<p>GEMS® Eggs, Eggs, Everywhere TG: Act02 (pp17-29)</p>
<p>SKL2.d.</p>	<p>Match pictures of animal parents and their offspring explaining your reasoning (for example: dog/puppy; cat/kitten; cow/calf; duck/ducklings, etc.).</p>	<p>GEMS® Eggs, Eggs, Everywhere TG: Act02 (pp17-29)</p>