

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

Georgia Performance Standards



**Grade 1
Course 41.01200 / Science**

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CAROLINA
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

S1CS5.b.	Draw pictures (grade level appropriate) that correctly portray features of the thing being described.	STC® Organisms TG: L01-2 (pp3-20), L04-5 (pp36-64) L08-10 (pp87-118), L15.Exts (pp159-160) L16-17 (pp169-182) Weather TG: L03.Exts (p29), L11 (pp101-112) L13 (pp123-128)
S1CS5.c.	Use simple pictographs and bar graphs to communicate data.	STC® Organisms TG: L02 (pp11-20), L13-15p135-168 L16.Exts (pp172-173) Weather TG: App-B (pp153-167) L01 (pp3-10), L02 (pp11-24), L04 (pp33-42) L07 (pp63-70), L08 (pp71-82), L10 (pp91-100) L12 (pp113-122), L14 (pp129-134), L15.Exts (p137) L16 (pp141-148)
S1CS6.	The Nature of Science When a science investigation is done the way it was done before, we expect to get a similar result.	STC® Comparing and Measuring TG: L07 (pp49-58), L16-17 (pp111-120)
S1CS6.a.	Science involves collecting data and testing hypotheses.	STC® Organisms TG: L02-L14 (pp11-154) Weather TG: App-B (pp153-167), L01-L13 (pp3-128.)
S1CS6.b.		GEMS® Ant Homes Under the Ground TG: Act01-5 (pp7-73) Penguins and Their Young TG: Act01-4 (pp5-45)
S1CS7.	The Nature of Science Scientists use a common language with precise definitions of terms to make it easier to communicate their observations to each other.	STC® Organisms TG: L03-L16 (pp21-178) Weather TG: L01-L13 (pp3-128), L13 (pp123-128) L15-17 (pp135-150)
S1CS7.a.		

S1CS7.b.	In doing science, it is often helpful to work as a team. All team members should reach individuals conclusions and share their understandings with other members of the team in order to develop a consensus.	STC® Organisms TG: L011-L15 (pp119-168) Weather TG: L012 (pp113-122)
S1CS7.c.	Tools such as thermometers, rulers, and balances often give more information about things than can be obtained by just observing things without help.	STC® Weather TG: App-A (pp151-152), App-B (pp153-167) L05-L10 (pp43-100) GEMS® Ant Homes Under the Ground TG: Act01-5 (pp7-73) Penguins and Their Young TG: Act01-4 (pp5-45)
S1CS7.d.	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. Advantage can be taken of classroom pets.	STC® Organisms TG: L01.Exts (p6), L02-L16 (pp11-178) Weather TG: L10.Exts (p95) GEMS® Ant Homes Under the Ground TG: Act01 (pp7-13) Penguins and Their Young TG: Act03-4 (pp33-45)
S1E1.	Earth Science	
S1E1.a	Identify different types of weather and the characteristics of each type.	STC® Weather TG: L02-5 (pp11-54), L15-17 (pp135-150)
S1E1.b.	Investigate weather by observing, measuring with simple weather instruments (thermometer, wind vane, rain gauge), and recording weather data (temperature, precipitation, sky conditions, and weather events) in a periodic journal or on a calendar seasonally.	STC® Weather TG: L04-7 (pp33-70), L10 (pp91-100) L15 (pp135-140), L17 (pp149-150)
S1E1.c.	Correlate weather data (temperature, precipitation, sky conditions, and weather events) to seasonal changes.	STC® Weather TG: L03 (pp25-32)

<p>S1E2. S1E2.a.</p> <p>S1E2.b.</p> <p>S1E2.c.</p> <p>S1E2.d.</p> <p>S1L1. S1L1.a.</p> <p>S1L1.b.</p>	<p>Earth Science Recognize changes in water when it freezes (ice) and when it melts (water).</p> <p>Identify forms of precipitation such as rain, snow, sleet, and hailstones as either solid (ice) or liquid (water).</p> <p>Determine that the weight of water before freezing, after freezing, and after melting stays the same.</p> <p>Determine that water in an open container disappears into the air over time, but water in a closed container does not.</p> <p>Life Science Identify the basic needs of a plant (Air; Water; Light; Nutrients).</p> <p>Identify the basic needs of an animal (Air; Water; Food; Shelter).</p>	<p>STC® Weather TG: L10.Exts (p95), L11 (pp101-112)</p> <p>GEMS® Penguins and Their Young TG: Act01 (pp5-13), Act04 (pp39-45)</p> <p>STC® Weather TG: L03 (pp25-32), L10 (pp91-100)</p> <p>STC® Weather TG: L10.Exts (p95), L11 (pp101-112)</p> <p>GEMS® Penguins and Their Young TG: Act01 (pp5-13), Act04 (pp39-45)</p> <p>STC® Weather TG: L10.Exts (p95), L11 (pp101-112)</p> <p>GEMS® Penguins and Their Young TG: Act01 (pp5-13), Act04 (pp39-45)</p> <p>STC® Organisms TG: L03-4 (pp21-52), L06 (pp65-74) L13 (pp135-148), L15-16 (pp155-178)</p> <p>Weather TG: L10.Exts (p95)</p> <p>STC® Organisms TG: L07-10 (pp75-118), L15 (pp155-168) L16 (pp169-178)</p> <p>GEMS® Ant Homes Under the Ground TG: Act01 (pp7-13)</p>
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S1L1.d.	Compare and describe various animals - appearance, motion, growth, and basic needs.	STC® Organisms TG: L01 (pp3-10), L14-17 (pp149-182) GEMS® Ant Homes Under the Ground TG: Act01-5 (pp7-73) Penguins and Their Young TG: Act02-3 (pp15-37)
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