

Carolina™ Curriculum Correlation to



Louisiana Science Content Standards Grades K–4 and 5–8

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

This document is an alignment of The STC PROGRAM™, GEMS® Space Science Sequence and Building Blocks of Science® units with the Louisiana Science Content Standards, grades K–4 and 5–8. Although each unit was developed for use at a specific grade level, there is some flexibility in grade placement.



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 and Space Science	Physical Science
K–4	<ul style="list-style-type: none"> The Life Cycle of Butterflies Organisms Understanding My Body Understanding Cells and DNA 	<ul style="list-style-type: none"> Land and Water Motion and Design Rocks and Minerals Soils Space Science for Grades 3-5 	<ul style="list-style-type: none"> Animal Studies Changes Electric Circuits Solids and Liquids Sound
5-8	<ul style="list-style-type: none"> Experiments with Plants Organisms–From Macro to Micro 	<ul style="list-style-type: none"> Catastrophic Events Earth in Space Ecosystems 	<ul style="list-style-type: none"> Electrical Energy and Circuit Design Energy, Machines, and Motion Properties of Matter



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.
- RB = 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)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

Grades K-4

Louisiana Content Standards

CONTENT STANDARD	LA.SI-E.	Science as Inquiry: The students will do science by engaging in partial and full inquiries that are within their developmental capabilities.
BENCHMARK / GLE	SI-E-A1 .	The Abilities Necessary to do Scientific Inquiry: asking appropriate questions about organisms and events in the environment. (1, 3) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-A2 .	The Abilities Necessary to do Scientific Inquiry: planning and/or designing and conducting a scientific investigation. (2, 3) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-A3 .	The Abilities Necessary to do Scientific Inquiry: communicating that observations are made with one's senses. (1, 3) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-A4 .	The Abilities Necessary to do Scientific Inquiry: employing equipment and tools to gather data and extend the sensory observations. (3) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-A5 .	The Abilities Necessary to do Scientific Inquiry: using data, including numbers and graphs, to explain observations and experiments; <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-A6 .	The Abilities Necessary to do Scientific Inquiry: communicating observations and experiments in oral and written formats. (1, 3) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-A7 .	The Abilities Necessary to do Scientific Inquiry: utilizing safety procedures during experiments. (3, 5) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-B1 .	Understanding Scientific Inquiry: categorizing questions into what is known, what is not known, and what questions need to be explained. (2, 4) <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-E-B2 .	Understanding Scientific Inquiry: using appropriate experiments depending on the questions to be explored. (2, 4)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-E-B3 .	<p>Understanding Scientific Inquiry: choosing appropriate equipment and tools to conduct an experiment. (2, 3, 5)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-E-B4 .	<p>Understanding Scientific Inquiry: developing explanations by using observations and experiments. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-E-B5 .	<p>Understanding Scientific Inquiry: presenting the results of experiments. (1, 3)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-E-B6 .	<p>Understanding Scientific Inquiry: reviewing and asking questions about the results of investigations. (1, 3, 4)</p> <ul style="list-style-type: none"> All Units
CONTENT STANDARD	LA.PS-E.	Physical Science: Students will develop an understanding of the characteristics and interrelationships of matter and energy in the physical world.
BENCHMARK / GLE	PS-E-A1.	<p>Properties of Objects and Materials: observing, describing, and classifying objects by properties (size, weight, shape, color, texture, and temperature). (4)</p> <ul style="list-style-type: none"> Changes <ul style="list-style-type: none"> TG: L01 (pp3-20) TG: L06.Exts (pp67-69) TG: L11 (pp103-110) TG: L13.Exts (p123) TG: L14.Exts (p134) Rocks and Minerals <ul style="list-style-type: none"> TG: L01-02 (pp3-18) Soils <ul style="list-style-type: none"> TG: L01 (pp3-16) TG: L03-8 (pp27-86) Solids and Liquids <ul style="list-style-type: none"> TG: L01-17 (pp3-140) Sound <ul style="list-style-type: none"> TG: L01-02 (pp11-22) TG: L04.Exts (pp26-27) TG: L05.Exts (pp35-36)
BENCHMARK / GLE	PS-E-A2.	<p>Properties of Objects and Materials: measuring properties of objects using appropriate materials, tools, and technology. (3, 4, 5)</p> <ul style="list-style-type: none"> Changes <ul style="list-style-type: none"> TG: L01 (pp3-20) TG: L11 (pp103-110) Electric Circuits

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • RB: (pp34-38) • TG: L01-17 (pp3-86) • Motion and Design • TG: L04 (pp35-46) • Rocks and Minerals • TG: L01-02 (pp3-18) • Soils • TG: L01 (pp3-16) • TG: L03-08 (pp27-86) • Solids and Liquids • TG: L01-02 (pp3-18) • TG: L07 (pp55-62) • TG: L09.Exts (p73) • TG: L10 (pp81-86)
BENCHMARK / GLE	PS-E-A3.	<p>Properties of Objects and Materials: observing and describing the objects by the properties of the materials from which they are made (paper, wood, metal). (2, 4)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	PS-E-A4.	<p>Properties of Objects and Materials: describing the properties of the different states of matter and identifying the conditions that cause matter to change states. (2, 3)</p> <ul style="list-style-type: none"> • Changes • TG: L01 (pp3-20) • TG: L11-17 (pp103-158) • Electric Circuits • RB: (pp13-16) • Rocks and Minerals • TG: L01-02 (pp3-18) • Soils • TG: L01 (pp3-16) • TG: L03-08 (pp27-86) • Solids and Liquids • TG: L01-02 (pp3-18) • TG: L07 (pp55-62) • TG: L10 (pp81-86)
BENCHMARK / GLE	PS-E-A5.	<p>Properties of Objects and Materials: creating mixtures and separating them based on differences in properties (salt, sand). (2, 3)</p> <ul style="list-style-type: none"> • Changes • TG: L04-06 (pp43-70) • TG: L07.Exts (p76) • TG: L08.Exts (p82) • TG: L10-13 (pp95-128) • TG: L16 (pp147-154) • Soils • TG: L08 (pp73-86) • Solids and Liquids • TG: L09.Exts (p73)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> TG: L14-15 (pp109-130)
BENCHMARK / GLE	PS-E-B2.	<p>Position and Motion of Objects: exploring and recognizing that the position and motion of objects can be changed by pushing or pulling (force) over time. (1, 2, 3)</p> <ul style="list-style-type: none"> Motion and Design TG: L03-5 (pp25-56) TG: L07.Exts (pp68-69) TG: L08-13 (pp73-124) TG: L15 (pp139-144) TG: L17 (pp153-156) Solids and Liquids TG: L04 (pp29-40) Space Science for Grades 3-5 TG: Ses 1.1 (pp 28-45) TG: Ses 2.1-2.6 (pp 172-281)
BENCHMARK / GLE	PS-E-B3.	<p>Position and Motion of Objects: describing an object's motion by tracing and measuring its position over time. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> Electric Circuits RB: (pp34-38) Motion and Design TG: L03-5 (pp25-56) TG: L07.Exts (pp68-69) TG: L08-13 (pp73-124) TG: L15 (pp139-144) TG: L17 (pp153-156) Solids and Liquids TG: L04 (pp29-40) TG: L09.Exts (p73) Space Science for Grades 3-5 TG: Ses 1.1 (pp 28-45) TG: Ses 2.1 -2.6 (pp 172-281)
BENCHMARK / GLE	PS-E-B4.	<p>Position and Motion of Objects: investigating and describing how the motion of an object is related to the strength of the force (pushing or pulling) and the mass of the object. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> Motion and Design TG: L03-5 (pp25-56) TG: L07.Exts (pp68-69) TG: L08-13 (pp73-124) TG: L15 (pp139-144) TG: L17 (pp153-156) Solids and Liquids TG: L04 (pp29-40) Space Science for Grades 3-5 TG: Ses 1.1 (pp 28-45)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> TG: Ses 2.1 -2.6 (pp 172-281)
BENCHMARK / GLE	PS-E-C1.	<p>Forms of Energy: experimenting and communicating how vibrations of objects produce sound and how changing the rate of vibration varies the pitch. (2)</p> <ul style="list-style-type: none"> Building Blocks of Science: Human Bodyworks TG: Act 12 (pp 81-84) Sound TG: L01-17 (pp11-118)
BENCHMARK / GLE	PS-E-C2.	<p>Forms of Energy: investigating and describing how light travels and what happens when light strikes an object (reflection, refraction, and absorption). (2)</p> <ul style="list-style-type: none"> Electric Circuits RB: (pp39-41) Rocks and Minerals TG: L08 (pp57-62)
BENCHMARK / GLE	PS-E-C3.	<p>Forms of Energy: investigating and describing different ways heat can be produced and moved from one object to another by conduction. (2)</p> <ul style="list-style-type: none"> Electric Circuits RB: (pp13-21) RB: (pp24-28) RB: (pp32-33) RB: (pp36-38) Motion and Design TG: L06 (pp57-64)
BENCHMARK / GLE	PS-E-C4.	<p>Forms of Energy: investigating and describing how electricity travels in a circuit. (2)</p> <ul style="list-style-type: none"> Electric Circuits RB: (pp07-21) RB: (pp24-44) RB: (pp47-61) TG: L01-17 (pp3-86)
BENCHMARK / GLE	PS-E-C5.	<p>Forms of Energy: investigating and communicating that magnetism and gravity can exert forces on objects without touching the objects. (2)</p> <ul style="list-style-type: none"> Motion and Design TG: L03-05 (pp25-56) TG: L07.Exts (pp68-69) TG: L08-13 (pp73-124) TG: L15 (pp139-144) TG: L17 (pp153-156) Rocks and Minerals TG: L11 (pp79-84) Solids and Liquids TG: L04 (pp29-40) TG: L07 (pp55-62) TG: L09 (pp69-80)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • Space Science for Grades 3-5 • TG: Ses 1.1 (pp 28-45) • TG: Ses 2.1 -2.6 (pp 172-281)
BENCHMARK / GLE	PS-E-C6.	<p>Forms of Energy: exploring and describing simple energy transformations. (2)</p> <ul style="list-style-type: none"> • Electric Circuits • RB: (pp24-28) • RB: (pp36-38) • Motion and Design • TG: L06-07 (pp57-72) • TG: L12 (pp109-116) • TG: L15 (pp139-144)
BENCHMARK / GLE	PS-E-C7.	<p>Forms of Energy: exploring and describing the uses of energy at school, home, and play. (1, 2, 4, 5)</p> <ul style="list-style-type: none"> • Electric Circuits • RB: (pp17-21) • RB: (pp24-28) • RB: (pp36-38) • TG: L01-17 (pp3-86)
CONTENT STANDARD	LA.LS-E.	Life Science: The students will become aware of the characteristics and life cycles of organisms and understand their relationships to each other and to their environment.
BENCHMARK / GLE	LS-E-A1.	<p>Characteristics of Organisms: identifying the needs of plants and animals, based on age-appropriate recorded observations. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp06-08) • RB: (pp16-19) • TG: L01-17 (pp3-172) • Electric Circuits • RB: (pp11-12) • RB: (pp47-49) • Land and Water • TG: L14.Exts (p156) • The Life Cycle of Butterflies • TG: L01-16 (pp3-96) • TG: App-B (pp101-110) • Motion and Design • RB: (pp07-09) • Organisms • TG: L07-10 (pp75-118) • TG: L13-17 (pp135-182) • Soils • TG: L09-10 (pp87-108) • TG: L16.Exts (pp164-166) • Sound • TG: L04.Exts (pp26-27)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L14.Exts (p98)
<p>BENCHMARK / GLE</p>	<p>LS-E-A2.</p>	<p>Characteristics of Organisms: distinguishing between living and nonliving things. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Animal Studies • TG: L02 (pp11-20) • Building Blocks of Science: Understanding Cells and DNA • TG: Act 01 -5 (pp 21-73) • TG: Pre Assessment (pp 17-19) • The Life Cycle of Butterflies • TG: L10 (pp63-68) • Organisms • TG: L01 (pp3-10) • TG: L15-17 (pp155-182) • Soils • TG: L01-10 (pp3-108) • TG: L13 (pp125-138)
<p>BENCHMARK / GLE</p>	<p>LS-E-A3.</p>	<p>Characteristics of Organisms: locating and comparing major plant and animal structures and their functions. (1, 3)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp06-08) • RB: (pp16-19) • TG: L03-06 (pp21-74) • TG: L08 (pp87-96) • TG: L13.Exts (p138) • TG: L14-15 (pp143-164) • TG: L16.Exts (p167) • Building Blocks of Science: Human Bodyworks • TG: Ext 01 (p 21) • TG: Ext 04 (p 41) • TG: Ext 12 (p 83) • Electric Circuits • RB: (pp11-12) • RB: (pp47-49) • Land and Water • TG: L14.Exts (p156) • The Life Cycle of Butterflies • TG: L01-16 (pp3-96) • TG: App-B (pp101-110) • Motion and Design • RB: (pp07-09) • Organisms • TG: L07-10 (pp75-118) • TG: L13-15 (pp135-168) • TG: L17 (pp179-182)

**Carolina™ Curriculum Correlation to Louisiana Content Standards
Science Grades K–4 and 5–8**

		<ul style="list-style-type: none"> • Soils • TG: L10 (pp97-108) • TG: L16.Exts (pp164-166) • Sound • TG: L04.Exts (pp26-27) • TG: L14.Exts (p98)
BENCHMARK / GLE	LS-E-A4.	<p>Characteristics of Organisms: recognizing that there is great diversity among organisms. (1)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp06-08) • RB: (pp35-37) • RB: (pp45-49) • TG: L01 (pp3-10) • TG: L17 (pp169-172) • Organisms • TG: L12.Exts (p131) • TG: L13.Exts (pp139-140)
BENCHMARK / GLE	LS-E-A5.	<p>Characteristics of Organisms: locating major human body organs and describing their functions. (1, 4)</p> <ul style="list-style-type: none"> • Animal Studies • TG: L13.Exts (p138) • Building Blocks of Science: Human Bodyworks • TG: Pre Assessment (pp 13-17) • TG: Act 01-12 (pp 19-84) • TG: Post (pp 85-88) • Building Blocks of Science: Understanding Cells and DNA • TG: Act 01 (pp 21-26)
BENCHMARK / GLE	LS-E-A6.	<p>Characteristics of Organisms: recognizing the food groups necessary to maintain a healthy body. (1, 2, 4, 5)</p> <ul style="list-style-type: none"> • Animal Studies • TG: L05.Exts (p58) • Building Blocks of Science: Human Bodyworks • TG: Act 07 (pp 55-58) • TG: Ext 03 (p 33) • TG: Ext 08 (p 64) • TG: Ext 09 (p 68) • TG: Ext 10 (p 73)
BENCHMARK / GLE	LS-E-B1.	<p>Life Cycles of Organisms: observing and describing the life cycles of some plants and animals. (1, 3)</p> <ul style="list-style-type: none"> • Animal Studies • TG: L09.Exts (pp101-102) • Building Blocks of Science: Understanding Cells and DNA • TG: Pre Assessment (pp 17-19) • TG: Act 05-6 (pp 65-79)

**Carolina™ Curriculum Correlation to Louisiana Content Standards
Science Grades K–4 and 5–8**

		<ul style="list-style-type: none"> • The Life Cycle of Butterflies • TG: L01-9 (pp3-62) • TG: L11-16 (pp69-96)
<p>BENCHMARK / GLE</p>	<p>LS-E-B2.</p>	<p>Life Cycles of Organisms: observing, comparing, and grouping plants and animals according to likenesses and/or differences. (1, 2, 4)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp06-08) • RB: (pp22-29) • TG: L01-3 (pp3-36) • TG: L06.Exts (p69) • TG: L07.Exts (pp79-80) • TG: L08 (pp87-96) • TG: L15.Exts (pp159-160) • TG: L17 (pp169-172) • Building Blocks of Science: Human Bodyworks • TG: Pre Assessment (pp 13-17) • TG: Act 01-10 (pp 19-75) • TG: Post (pp 85-88) • Building Blocks of Science: Understanding Cells and DNA • TG: Act 01-4 (pp 21-63) • TG: Act 06 (pp 75-79) • TG: Ext 03 (p 37) • The Life Cycle of Butterflies • TG: L02 (pp11-18) • TG: L10-11 (pp63-74) • TG: L14-15 (pp85-94) • Organisms • TG: L01-02 (pp3-20) • TG: L04.Exts (pp43-45) • TG: L05.Exts (p59) • TG: L08.Exts (p94) • TG: L09.Exts (p101) • TG: L13.Exts (pp139-140) • TG: L16.Exts (pp172-173) • TG: L17 (pp179-182)
<p>BENCHMARK / GLE</p>	<p>LS-E-B3.</p>	<p>Life Cycles of Organisms: observing and recording how the offspring of plants and animals are similar to their parents. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp40-42) • TG: L11.Exts (p119) • TG: L13.Exts (p138) • TG: L14.Exts (p145) • Building Blocks of Science: Understanding Cells and DNA • TG: Pre Assessment (pp 17-19) • TG: Act 05 (pp 65-73) • TG: Act 06 (pp 75-79) • TG: Post Assessment (pp 85-91)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

BENCHMARK / GLE	LS-E-B4.	<p>Life Cycles of Organisms: observing, recording, and graphing student growth over time using a variety of quantitative measures (height, weight, linear measure of feet and hands, etc.). (1, 3)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp12-15) • Building Blocks of Science: Human Bodyworks • TG: Pre Assessment (pp 13-17) • TG: Act 01-12 (pp 19-84) • TG: Post (pp 85-88) • Building Blocks of Science: Understanding Cells and DNA • TG: Act 01 (pp 21-26) • TG: Act 05 (pp 65-73) • The Life Cycle of Butterflies • TG: L12 (pp75-80)
BENCHMARK / GLE	LS-E-C1.	<p>Organisms and Their Environments: examining the habitats of plants and animals and determining how basic needs are met within each habitat. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp09-19) • RB: (pp30-32) • RB: (pp35-42) • RB: (pp50-52) • TG: L01-17 (pp3-172) • Land and Water • TG: L14.Exts (p156) • The Life Cycle of Butterflies • TG: L01-3 (pp3-22) • TG: L05-8 (pp29-52) • TG: L10-12 (pp63-80) • TG: L15 (pp89-94) • Organisms • TG: L03-04 (pp21-52) • TG: L06-13 (pp65-148) • TG: L15-16 (pp155-178) • Soils • TG: L09-10 (pp87-108)
BENCHMARK / GLE	LS-E-C2.	<p>Organisms and Their Environments: describing how the features of some plants and animals enable them to live in specific habitats. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp06-19) • RB: (pp30-32) • RB: (pp35-42) • RB: (pp45-52) • TG: L01-17 (pp3-172) • Building Blocks of Science: Human Bodyworks • TG: Ext 01 (p 21) • TG: Ext 04 (p 41) • TG: Ext 12 (p 83) • Electric Circuits

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • RB: (pp11-12) • RB: (pp47-49) • Land and Water • TG: L14.Exts (p156) • The Life Cycle of Butterflies • TG: L01-16 (pp3-96) • TG: App-B (pp101-110) • Motion and Design • RB: (pp07-09) • RB: (pp14-17) • Organisms • TG: L04 (pp36-52) • TG: L11-12 (pp119-134) • Soils • TG: L10 (pp97-108) • TG: L16.Exts (pp164-166) • Sound • TG: L04.Exts (pp26-27) • TG: L14.Exts (p98)
BENCHMARK / GLE	LS-E-C3.	<p>Organisms and Their Environments: observing animals and plants and describing interaction or interdependence. (1, 4)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp12-15) • RB: (pp26-29) • RB: (pp45-49) • RB: (pp56-57) • RB: (pp58-61) • TG: L01-17 (pp3-172) • Building Blocks of Science: Human Bodyworks • TG: Act 01-12 (pp 19-84) • Building Blocks of Science: Understanding Cells and DNA • TG: Act 02-06 (pp 27-79) • The Life Cycle of Butterflies • TG: L01-16 (pp3-96) • Organisms • TG: L01.Exts (p6) • TG: L02-16 (pp11-178) • Solids and Liquids • TG: L01.Exts (pp7-8)
CONTENT STANDARD	LA.ESS-E.	Earth and Space Science: The students will develop an understanding of the properties of earth materials, the structure of the Earth system, the Earth's history, and the Earth's place in the universe.
BENCHMARK / GLE	ESS-E-A1.	<p>Properties of Earth Materials: understanding that earth materials are rocks, minerals, and soils. (1)</p> <ul style="list-style-type: none"> • Land and Water • RB: (pp15-18) • RB: (pp36-38) • TG: L05.Exts (p56) • Rocks and Minerals

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L01-17 (pp3-128) • Soils • TG: L01-17 (pp3-172) • Solids and Liquids • TG: L04.Exts (p34)
BENCHMARK / GLE	ESS-E-A2.	<p>Properties of Earth Materials: understanding that approximately three-fourths of the Earth's surface is covered with water and how this condition affects weather patterns and climates. (1)</p> <ul style="list-style-type: none"> • Changes • TG: L02 (pp21-30) • TG: L03.Exts (pp35-36) • TG: L08 (pp79-84) • Land and Water • RB: (pp21-25) • TG: L01-02 (pp3-28) • Soils • TG: L11.Exts (p113) • TG: L12 (pp115-124) • Solids and Liquids • TG: L10.Exts (p85)
BENCHMARK / GLE	ESS-E-A3.	<p>Properties of Earth Materials: investigating, observing, and describing how water changes from one form to another and interacts with the atmosphere. (2, 4)</p> <ul style="list-style-type: none"> • Changes • TG: L02 (pp21-30) • TG: L03.Exts (pp35-36) • TG: L08 (pp79-84) • Land and Water • RB: (pp07-61) • TG: L01-17 (pp3-186) • Rocks and Minerals • TG: L01-16 (pp3-126) • Soils • TG: L11.Exts (p113) • TG: L12 (pp115-124) • Solids and Liquids • TG: L10.Exts (p85)
BENCHMARK / GLE	ESS-E-A5.	<p>Properties of Earth Materials: observing and communicating that rocks are composed of various substances. (1)</p> <ul style="list-style-type: none"> • Land and Water • RB: (pp15-18) • Rocks and Minerals • TG: L01-04 (pp3-34) • TG: L16-17 (pp113-128) • Solids and Liquids • TG: L04.Exts (p34)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

BENCHMARK / GLE	ESS-E-A6.	<p>Properties of Earth Materials: observing and describing variations in soil. (1)</p> <ul style="list-style-type: none"> • Land and Water • RB: (pp36-38) • TG: L03.Exts (p35) • TG: L04-07 (pp37-84) • TG: L09.Exts (p103) • TG: L10-13 (pp109-152) • Soils • TG: L01-17 (pp3-172)
BENCHMARK / GLE	ESS-E-B1.	<p>Objects in the Sky: observing and describing the characteristics of objects in the sky. (1)</p> <ul style="list-style-type: none"> • Space Science for Grades 3-5 • TG: Ses 1 Pre Assessment (p 1) • TG: Ses 1 Post Assessment (pp 1-2) • TG: Ses 1.2 (pp 46-55) • TG: Ses 1.6 (pp 104-121) • TG: Ses 3 Pre Assessment (pp 1-2) • TG: Ses 3 Post Assessment (pp 1-2) • TG: Ses 3.2 (pp 300-311) • TG: Ses 3.3 (pp 312-323)
BENCHMARK / GLE	ESS-E-B2.	<p>Objects in the Sky: demonstrating how the relationship of the Earth, moon, and sun causes eclipses and moon phases. (2, 3, 4)</p> <ul style="list-style-type: none"> • Space Science for Grades 3-5 • TG: Ses 1 Pre Assessment (p 1) • TG: Ses 1 Post Assessment (pp 1-2) • TG: Ses 1.4-1.9 (pp 70-167) • TG: Ses 2.6 (pp 260-281) • TG: Ses 4 Pre Assessment (pp 1-2) • TG: Ses 4 Post Assessment (pp 1-2) • TG: Ses 4 Reading (pp 41-42) • TG: Ses 4.1-4.5 (pp 340-423)
BENCHMARK / GLE	ESS-E-B3.	<p>Objects in the Sky: observing and recording the changing appearances and positions of the moon in the sky at night and determining the monthly pattern of lunar change. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Space Science for Grades 3-5 • TG: Ses 1 Pre Assessment (p 1) • TG: Ses 1 Post Assessment (pp 1-2) • TG: Ses 1.2-1.9 (pp 46-167) • TG: Ses 2.6 (pp 260-281) • TG: Ses 3 Pre Assessment (pp 1-2) • TG: Ses 3 Post Assessment (pp 1-2) • TG: Ses 3.2 (pp 300-311) • TG: Ses 3.3 (pp 312-323) • TG: Ses 4 Pre Assessment (pp 1-2) • TG: Ses 4 Post Assessment (pp 1-2)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> TG: Ses 4.1-4.5 (pp 340-423)
BENCHMARK / GLE	ESS-E-B4.	<p>Objects in the Sky: modeling changes that occur because of the rotation of the Earth (alternation of night and day) and the revolution of the Earth around the sun. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> Space Science for Grades 3-5 TG: Ses 1 Pre Assessment (p 1) TG: Ses 1 Post Assessment (pp 1-2) TG: Ses 1.2 (pp 46-55) TG: Ses 1.6 (pp 104-121) TG: Ses 3 Pre Assessment (pp 1-2) TG: Ses 3 Post Assessment (pp 1-2) TG: Ses 3.1-3.4 (pp 286-335) TG: Ses 4.1-4.5 (pp 340-423)
BENCHMARK / GLE	ESS-E-B5.	<p>Objects in the Sky: understanding that the sun, a star, is a source of heat and light energy and identifying its effects upon the Earth. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> Space Science for Grades 3-5 TG: Ses 1 Pre Assessment (p 1) TG: Ses 1 Post Assessment (pp 1-2) TG: Ses 1.4-1.9 (pp 70-167) TG: Ses 3.1-3.3 (pp 286-323)
BENCHMARK / GLE	ESS-E-B6.	<p>Objects in the Sky: understanding that knowledge of the Earth as well as of the universe is gained through space exploration. (1)</p> <ul style="list-style-type: none"> Motion and Design RB: (pp44-46) Space Science for Grades 3-5 TG: Ses 1 Reading (p 2) TG: Ses 1.1-1.3 (pp 28-69) TG: Ses 1.7 (pp 122-135) TG: Ses 1.8 (pp 136-151) TG: Ses 2.3 Reading (pp 1-2) TG: Ses 2.4 Reading (pp 1-2) TG: Ses 2.6 (pp 260-281) TG: Ses 3 Reading (pp 1-2) TG: Ses 4 Reading (pp 41-42)
CONTENT STANDARD	LA.SE-E.	<p>Science and the Environment: In learning environmental science, students will develop an appreciation of the natural environment, learn the importance of environmental quality, and acquire a sense of stewardship. As consumers and citizens, they will be able to recognize how our personal, professional, and political actions affect the natural world.</p>
BENCHMARK / GLE	SE-E-A1.	<p>Understanding that an 'ecosystem' is made of living and non-living components. (1, 3, 4)</p> <ul style="list-style-type: none"> Animal Studies

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • RB: (pp06-08) • TG: L01-17 (pp3-172) • Building Blocks of Science: Understanding Cells and DNA • TG: Act 01 (pp 21-26) • The Life Cycle of Butterflies • TG: L02.Exts (pp14-15) • TG: L10 (pp63-68) • Organisms • TG: L01 (pp3-10) • TG: L04.Exts (pp43-45) • TG: L11.Exts (pp122-123) • TG: L12.Exts (p131) • TG: L15-17 (pp155-182) • Soils • TG: L01-10 (pp3-108) • TG: L13 (pp125-138)
BENCHMARK / GLE	SE-E-A3.	<p>Identifying ways in which humans have altered their environment, both in positive and negative ways, either for themselves or for other living things. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp09-11) • TG: L03.Exts (p32) • Building Blocks of Science: Human Bodyworks • TG: Ext 08 (p 64) • Changes • TG: L06.Exts (pp67-69) • Land and Water • TG: L14 (pp153-162) • Solids and Liquids • TG: L14.Exts (p114)
BENCHMARK / GLE	SE-E-A4.	<p>Understanding that the original sources of all material goods are natural resources and that the conserving and recycling of natural resources is a form of stewardship. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp09-15) • RB: (pp35-37) • RB: (pp40-42) • RB: (pp58-61) • Changes • TG: L06.Exts (pp67-69) • Land and Water • RB: (pp36-38) • TG: L12 (pp129-142) • TG: L14-16 (pp153-182) • Solids and Liquids • TG: L14.Exts (p114)
BENCHMARK / GLE	SE-E-A5.	<p>Understanding that most plant and animal species are threatened or endangered today</p>

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<p>due to habitat loss or change. (1, 2, 4)</p> <ul style="list-style-type: none"> • Animal Studies • RB: (pp09-19) • RB: (pp30-42) • RB: (pp50-52) • TG: L01-17 (pp3-172) • The Life Cycle of Butterflies • TG: L01-03 (pp3-22) • TG: L12 (pp75-80) • Organisms • TG: L04 (pp36-52) • TG: L11-12 (pp119-134)
--	--	--

Grade 5-8 Louisiana Content Standards

CONTENT STANDARD	LA.SI-M.	Science as Inquiry: The students will do science by engaging in partial and full inquiries that are within their developmental capabilities.
BENCHMARK / GLE	SI-M-A1.	<p>The Abilities Necessary to do Scientific Inquiry: identifying questions that can be used to design a scientific investigation. (1, 2, 3)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-M-A2.	<p>The Abilities Necessary to do Scientific Inquiry: designing and conducting a scientific investigation. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-M-A3.	<p>The Abilities Necessary to do Scientific Inquiry: using mathematics and appropriate tools and techniques to gather, analyze, and interpret data. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-M-A4.	<p>The Abilities Necessary to do Scientific Inquiry: developing descriptions, explanations, and graphs using data. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-M-A5.	<p>The Abilities Necessary to do Scientific Inquiry: developing models and predictions using the relationships between data and explanations. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	SI-M-A6.	<p>The Abilities Necessary to do Scientific Inquiry: comparing alternative explanations and predictions. (1, 3, 4)</p>

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-A7.	<p>The Abilities Necessary to do Scientific Inquiry: communicating scientific procedures, information, and explanations. (1, 3)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-A8.	<p>The Abilities Necessary to do Scientific Inquiry: utilizing safety procedures during scientific investigations. (3, 5)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B1.	<p>Understanding Scientific Inquiry: recognizing that different kinds of questions guide different kinds of scientific investigations. (2, 4)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B2.	<p>Understanding Scientific Inquiry: communicating that current scientific knowledge guides scientific investigations. (1, 3, 4)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B3.	<p>Understanding Scientific Inquiry: understanding that mathematics, technology, and scientific techniques used in an experiment can limit or enhance the accuracy of scientific knowledge. (3, 4)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B4.	<p>Understanding Scientific Inquiry: using data and logical arguments to propose, modify, or elaborate on principles and models. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B5.	<p>Understanding Scientific Inquiry: understanding that scientific knowledge is enhanced through peer review, alternative explanations, and constructive criticism. (1, 4, 5)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B6.	<p>Understanding Scientific Inquiry: communicating that scientific investigations can result in new ideas, new methods or procedures, and new technologies. (1, 3, 4)</p> <ul style="list-style-type: none"> All Units
BENCHMARK / GLE	SI-M-B7.	<p>Understanding Scientific Inquiry: understanding that scientific development/technology is driven by societal needs and funding. (4, 5)</p> <ul style="list-style-type: none"> All Units
CONTENT STANDARD	LA.PS-M.	Physical Science: Students will develop an understanding of the characteristics and interrelationships of matter and energy in the physical world.
BENCHMARK /	PS-M-A1.	Properties and Changes of Properties in Matter: investigating, measuring, and

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

GLE		<p>communicating the properties of different substances which are independent of the amount of the substance. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Ecosystems • TG: L11 (pp111-116) • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L01-22 (pp2-236) • TG: L01-22 (pp3-254) • Properties of Matter • SG: L01-26 (pp2-235) • TG: L01-26 (pp3-332)
BENCHMARK / GLE	PS-M-A2.	<p>Properties and Changes of Properties in Matter: understanding that all matter is made up of particles called atoms and that atoms of different elements are different. (2, 4)</p> <ul style="list-style-type: none"> • Properties of Matter • SG: L06-7 (pp56-73) • SG: L10-11 (pp86-105) • SG: L13 (pp112-115) • SG: L15 (pp122-129) • SG: L20-22 (pp170-207) • SG: L25 (pp224-229) • TG: L06-7 (pp65-90) • TG: L10-11 (pp113-134) • TG: L13 (pp143-152) • TG: L15 (pp161-168) • TG: L20-22 (pp227-274) • TG: L25 (pp303-312)
BENCHMARK / GLE	PS-M-A3.	<p>Properties and Changes of Properties in Matter: grouping substances according to similar properties and/or behaviors. (4)</p> <ul style="list-style-type: none"> • Properties of Matter • SG: L11-12 (pp98-111) • SG: L18-23 (pp150-217) • TG: L11-12 (pp125-142) • TG: L18-23 (pp193-204)
BENCHMARK / GLE	PS-M-A4.	<p>Properties and Changes of Properties in Matter: understanding that atoms and molecules are perpetually in motion. (4)</p> <ul style="list-style-type: none"> • Properties of Matter • SG: L18 (pp150-161) • SG: L19 (pp162-167) • SG: L21 (pp186-197) • TG: L02.Exts (p21) • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L14.Exts (p157)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L15.Exts (p166) • TG: L18-21 (pp193-260)
BENCHMARK / GLE	PS-M-A5.	<p>Properties and Changes of Properties in Matter: investigating the relationships among temperature, molecular motion, phase changes, and physical properties of matter. (2, 3)</p> <ul style="list-style-type: none"> • Properties of Matter • SG: L05-6 (pp38-63) • SG: L18-19 (pp150-167) • SG: L21 (pp186-197) • TG: L02.Exts (p21) • TG: L05-6 (pp49-78) • TG: L07.Exts (p86) • TG: L08.Exts (p96) • TG: L12.Exts (p140) • TG: L13.Exts (p148) • TG: L14.Exts (p157) • TG: L15.Exts (p166) • TG: L18-19 (pp193-226) • TG: L21 (pp241-260)
BENCHMARK / GLE	PS-M-A6.	<p>Properties and Changes of Properties in Matter: investigating chemical reactions between different substances to discover that new substances formed may have new physical properties and do have new chemical properties. (2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • TG: L19.Exts (pp274-275) • Properties of Matter • SG: L06 (pp56-63) • SG: L12 (pp106-111) • SG: L18-26 (pp150-235) • TG: L06 (pp65-78) • TG: L12 (pp135-142) • TG: L16.Exts (p178) • TG: L18-26 (pp193-332)
BENCHMARK / GLE	PS-M-A7.	<p>Properties and Changes of Properties in Matter: understanding that during a chemical reaction in a closed system, the mass of the products is equal to that of the reactants. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • TG: L19.Exts (pp274-275) • Energy, Machines, and Motion • SG: L05-6 (pp36-61) • TG: L05-6 (pp47-74) • Earth in Space • TG: L14.Exts (p217) • TG: L15.Exts (p234) • Properties of Matter • SG: L02 (pp14-23) • SG: L06-15 (pp561-29) • SG: L20-26 (pp170-235)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L02.Exts (p21) • TG: L04 (pp39-48) • TG: L06-15 (pp65-168) • TG: L16.Exts (p178) • TG: L20 (pp227-240) • TG: L22-26 (pp263-332)
BENCHMARK / GLE	PS-M-A8.	<p>Properties and Changes of Properties in Matter: discovering and recording how factors such as temperature influence chemical reactions. (2)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L22 (pp240-251) • TG: L19.Exts (pp274-275) • TG: L22 (pp303-316) • Properties of Matter • SG: L05-06 (pp38-63) • SG: L12 (pp106-111) • SG: L20 (pp170-185) • SG: L22-26 (pp198-235) • TG: L05-06 (pp49-78) • TG: L07.Exts (p86) • TG: L12 (pp135-142) • TG: L13.Exts (p148) • TG: L16.Exts (p178) • TG: L18.Exts (p201) • TG: L20 (pp227-240) • TG: L22-26 (pp263-332)
BENCHMARK / GLE	PS-M-A9.	<p>Properties and Changes of Properties in Matter: identifying elements and compounds found in common foods, clothing, household materials, and automobiles. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Properties of Matter • SG: L20-22 (pp170-207) • TG: L20-22 (pp227-274) • TG: L23.Exts (p284)
BENCHMARK / GLE	PS-M-B1.	<p>Motions and Forces: describing and graphing the motions of objects. (1, 2, 3)</p> <ul style="list-style-type: none"> • All Units
BENCHMARK / GLE	PS-M-B2.	<p>Motions and Forces: recognizing different forces and describing their effects (gravity, electrical, magnetic). (1, 2)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L11-12 (pp120-153) • SG: L15 (pp170-189) • TG: L11-12 (pp149-176) • TG: L15 (pp197-218) • Energy, Machines, and Motion • SG: L01 (pp2-11) • SG: L05-13 (pp36-129) • SG: L15-22 (pp140-236)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L01 (pp3-22) • TG: L05-13 (pp47-166) • TG: L15-22 (pp177-254) • Earth in Space • SG: L15 (pp216-243) • TG: L15 (pp221-244)
BENCHMARK / GLE	PS-M-B3.	<p>Motions and Forces: understanding that, when an object is not being subjected to a force, it will continue to move at a constant speed and in a straight line. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L11 (pp120-133) • SG: L12 (pp134-153) • SG: L15 (pp170-189) • TG: L11 (pp149-162) • TG: L12 (pp163-176) • TG: L15 (pp197-218) • Energy, Machines, and Motion • SG: L01 (pp2-11) • SG: L05-13 (pp36-129) • SG: L15-22 (pp140-236) • TG: L01 (pp3-22) • TG: L05-13 (pp47-166) • TG: L15-22 (pp177-254) • Earth in Space • SG: L15 (pp216-243) • TG: L15 (pp221-244)
BENCHMARK / GLE	PS-M-B4.	<p>Motions and Forces: describing how forces acting on an object will reinforce or cancel one another, depending upon their direction and magnitude. (1, 2)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L11-12p120-15) • SG: L15 (pp170-189) • TG: L11-12p149-172 • TG: L15 (pp197-218) • Energy, Machines, and Motion • SG: L01 (pp2-11) • SG: L05-13 (pp36-129) • SG: L15-22 (pp140-236) • TG: L01 (pp3-22) • TG: L05-13 (pp47-166) • TG: L15-22 (pp177-254) • Earth in Space • SG: L15 (pp216-243) • TG: L15 (pp221-244)
BENCHMARK / GLE	PS-M-B5.	<p>Motions and Forces: understanding that unbalanced forces will cause changes in the speed or direction of an object's motion. (2, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L11-12 (pp120-153)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L15 (pp170-189) • TG: L11-12 (pp149-176) • TG: L15 (pp197-218) • Energy, Machines, and Motion • SG: L01 (pp2-11) • SG: L05-13 (pp36-129) • SG: L15-22 (pp140-236) • TG: L01 (pp3-22) • TG: L05-13 (pp47-166) • TG: L15-22 (pp177-254) • Earth in Space • SG: L15 (pp216-243) • TG: L15 (pp221-244)
<p>BENCHMARK / GLE</p>	<p>PS-M-C1.</p>	<p>Transformations of Energy: identifying and comparing the characteristics of different types of energy. (2, 3, 4)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • SG: L01-2 (pp2-25) • SG: L06-7 (pp58-83) • SG: L09-10 (pp94-117) • SG: L12 (pp122-133) • TG: L01-2 (pp3-36) • TG: L06-7 (pp77-110) • TG: L09-10 (pp123-156) • TG: L12 (pp169-180) • Energy, Machines, and Motion • SG: L01-3 (pp2-25) • SG: L10 (pp92-97) • SG: L20-22 (pp200-236) • TG: L01-3 (pp3-36) • TG: L07.Exts (p83) • TG: L09 -10(pp99-130) • TG: L11.Exts (p139) • TG: L12.Exts (p153) • TG: L15 (pp177-184) • TG: L20-22 (pp235-254) • Properties of Matter • SG: L17 (pp140-149) • TG: L17 (pp179-192)
<p>BENCHMARK / GLE</p>	<p>PS-M-C2.</p>	<p>Transformations of Energy: understanding the different kinds of energy transformations and the fact that energy can be neither destroyed nor created. (2, 3, 4)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • SG: L01-2 (pp2-25) • SG: L08-9 (pp84-103) • SG: L10 (pp104-117) • SG: L12 (pp122-133) • SG: L15-19 (pp156-209) • TG: L01-2 (pp3-36) • TG: L08-10 (pp111-156) • TG: L12 (pp169-180)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L15-19 (pp213-276) • Energy, Machines, and Motion • SG: L02-4 (pp12-35) • SG: L10 (pp92-97) • SG: L17 (pp164-173) • SG: L19 (pp188-199) • SG: L20 (pp200-213) • SG: L22 (pp226-236) • TG: L02 -4(pp23-46) • TG: L09 (pp99-106) • TG: L10 (pp107-130) • TG: L17 (pp203-216) • TG: L19-22 (pp229-254)
BENCHMARK / GLE	PS-M-C3.	<p>Transformations of Energy: understanding that the sun is a major source of energy and that energy arrives at the Earth's surface as light with a range of wavelengths. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03-4 (pp26-53) • SG: L06-7 (pp68-95) • TG: L03-4 (pp27-56) • TG: L06-7 (pp69-102) • Electrical Energy and Circuit Design • SG: L19 (pp196-209) • TG: L19 (pp263-276) • Energy, Machines, and Motion • SG: L19 (pp188-199) • TG: L04.Exts (pp41-42) • TG: L19 (pp229-234) • Earth in Space • SG: L07-9 (pp88-127) • TG: L07-9 (pp83-146)
BENCHMARK / GLE	PS-M-C4.	<p>Transformations of Energy: observing and describing the interactions of light and matter (reflection, refraction, absorption, transmission, scattering). (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Earth in Space • SG: L07 (pp88-101) • TG: L07 (pp83-96)
BENCHMARK / GLE	PS-M-C5.	<p>Transformations of Energy: investigating and describing the movement of heat and the effects of heat in objects and systems. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L03 (pp26-41) • SG: L05 (pp54-67) • TG: L03 (pp27-44) • TG: L05 (pp57-68) • Earth in Space • SG: L07-9 (pp88-127) • TG: L07-9 (pp83-146)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

BENCHMARK / GLE	PS-M-C6.	<p>Transformations of Energy: describing the types of energy that can be involved, converted, or released in electrical circuits. (2, 3, 4)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • SG: L01-24 (pp2-251) • TG: L01-24 (pp3-326) • Energy, Machines, and Motion • SG: L02-4 (pp12-35) • SG: L09 (pp82-91) • TG: L02-4 (pp23-46) • Properties of Matter • SG: L20 (pp170-185) • SG: L24 (pp218-223) • TG: L20 (pp227-240) • TG: L24 (pp295-302)
BENCHMARK / GLE	PS-M-C7.	<p>Transformations of Energy: understanding that energy is involved in chemical reactions. (2, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • TG: L19.Exts (pp274-275) • Electrical Energy and Circuit Design • SG: L01 (pp2-11) • SG: L10 (pp104-117) • TG: L01 (pp3-22) • TG: L10 (pp143-156) • Properties of Matter • SG: L06 (pp56-63) • SG: L12 (pp106-111) • SG: L20 (pp170-185) • SG: L22-26 (pp198-235) • TG: L06 (pp65-78) • TG: L12 (pp135-142) • TG: L16.Exts (p178) • TG: L20 (pp227-240) • TG: L20.Exts (p235) • TG: L22-26 (pp263-332)
BENCHMARK / GLE	PS-M-C8.	<p>Transformations of Energy: comparing the uses of different energy resources and their effects upon the environment. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • TG: L01.Exts (p16) • Energy, Machines, and Motion • SG: L09 (pp82-91)
CONTENT STANDARD	LA.LS-M.	Life Science: The students will become aware of the characteristics and life cycles of organisms and understand their relationships to each other and to their environment.
BENCHMARK / GLE	LS-M-A1.	<p>Structure and function In Living Systems: describing the observable components and functions of a cell, such as the cell membrane, nucleus, and movement of molecules into and out of cells. (1)</p> <ul style="list-style-type: none"> • Organisms - From Macro to Micro

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L07-8 (pp82-105) • TG: L07-8 (pp105-150) • TG: L15.Exts (p260)
BENCHMARK / GLE	LS-M-A2.	<p>Structure and function In Living Systems: comparing and contrasting the basic structures and functions of different plant and animal cells. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Organisms - From Macro to Micro • SG: L07-08 (pp82-105) • TG: L07-08 (pp105-150) • TG: L15.Exts (p260)
BENCHMARK / GLE	LS-M-A3.	<p>Structure and function In Living Systems: observing and analyzing the growth and development of selected organisms, including a seed plant, an insect with complete metamorphosis, and an amphibian. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Earth in Space • TG: L21.Exts (p310) • Ecosystems • TG: L06 (pp61-74) • Experiments with Plants • RB: (pp26-29) • TG: L06 (pp57-64) • TG: L07 (pp65-70) • Organisms - From Macro to Micro • SG: L01-20 (pp2-243) • TG: L01-20 (pp3-350) • Properties of Matter • SG: L14 (pp116-121) • TG: L14 (pp153-160)
BENCHMARK / GLE	LS-M-A4.	<p>Structure and function In Living Systems: describing the basic processes of photosynthesis and respiration and their importance to life. (1, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp11-13) • RB: (pp49-51) • TG: L01 (pp3-12) • TG: L02 (pp13-24) • Experiments with Plants • RB: (pp07-10) • Organisms - From Macro to Micro • SG: L07 (pp82-93) • SG: L10 (pp120-131) • SG: L14 (pp172-179) • TG: L04.Exts (pp53-54) • TG: L05.Exts (pp69-70) • TG: L07 (pp105-130) • TG: L10 (pp167-184) • TG: L14 (pp237-252) • Properties of Matter

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L04 (pp30-37)
BENCHMARK / GLE	LS-M-A5.	<p>Structure and function In Living Systems: investigating human body systems and their functions (including circulatory, digestive, skeletal, respiratory). (1, 3, 4)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • TG: L19.Exts (pp275-276)
BENCHMARK / GLE	LS-M-A6.	<p>Structure and function In Living Systems: describing how the human body changes with age and listing factors that affect the length and quality of life. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • TG: L19.Exts (pp275-276) • Organisms - From Macro to Micro • SG: L15 (pp180-187) • TG: L15 (pp253-266) • Properties of Matter • SG: L04 (pp30-37) • SG: L06 (pp56-63)
BENCHMARK / GLE	LS-M-A7.	<p>Structure and function In Living Systems: describing communicable and noncommunicable diseases. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Experiments with Plants • RB: (pp54-56) • Organisms - From Macro to Micro • SG: L11 (pp132-145) • SG: L15 (pp180-187) • TG: L03.Exts (p41) • TG: L07.Exts (pp118-119) • TG: L11.Exts (pp192-193) • TG: L15 (pp253-266)
BENCHMARK / GLE	LS-M-B1.	<p>Reproduction and Heredity: describing the importance of body cell division (mitosis) and sex cell production (meiosis). (1, 4)</p> <ul style="list-style-type: none"> • Organisms - From Macro to Micro • SG: L08-9pp96-119) • SG: L19 (pp216-235) • TG: L03.Exts (p41) • TG: L08-9pp131-166) • TG: L19 (pp303-330)
BENCHMARK / GLE	LS-M-B2.	<p>Reproduction and Heredity: describing the role of chromosomes and genes in heredity. (1, 4)</p> <ul style="list-style-type: none"> • Experiments with Plants • RB: (pp36-40) • RB: (pp44-46) • RB: (pp54-56) • RB: (pp62) • Organisms - From Macro to Micro

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L08-9pp96-119 • SG: L19 (pp216-235) • TG: L03.Exts (p41) • TG: L08-9pp131-166) • TG: L19 (pp303-330)
BENCHMARK / GLE	LS-M-B3.	<p>Reproduction and Heredity: describing how heredity allows parents to pass certain traits to offspring. (1, 4)</p> <ul style="list-style-type: none"> • Experiments with Plants • RB: (pp11-13) • RB: (pp36-40) • RB: (pp44-46) • RB: (pp50-56) • RB: (pp62) • Organisms - From Macro to Micro • SG: L01 (pp2-11) • SG: L18-19 (pp204-235) • TG: L01 (pp3-14) • TG: L02.Exts (p25) • TG: L18 4-19(pp293-330)
BENCHMARK / GLE	LS-M-C1.	<p>Populations and Ecosystems: constructing and using classification systems based on the structure of organisms. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Experiments with Plants • RB: (pp07-10) • RB: (pp54-56) • Organisms - From Macro to Micro • SG: L01 (pp2-11) • SG: L03 (pp28-37) • SG: L06 (pp64-81) • SG: L11 (pp132-145) • SG: L14 (pp172-179) • SG: L20 (pp236-243) • TG: L01 (pp3-14) • TG: L02.Exts (p25) • TG: L03 (pp33-48) • TG: L06 (pp73-104) • TG: L11 (pp185-200) • TG: L14 (pp237-252) • TG: L20 (pp331-350)
BENCHMARK / GLE	LS-M-C2.	<p>Populations and Ecosystems: modeling and interpreting food chains and food webs. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp14-16) • TG: L02 (pp13-24) • TG: L03 (pp25-38) • TG: L07 (pp75-82) • TG: L10 (pp99-110)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L12.Exts (p120) • TG: L13 (pp125-132) • Experiments with Plants • TG: L06.Exts (p62) • Earth in Space • TG: L07.Exts (pp92-93) • Organisms - From Macro to Micro • SG: L08 (pp96-105) • SG: L10 (pp120-131) • TG: L07.Exts (pp118-119) • TG: L08 (pp131-150) • TG: L10 (pp167-184) • TG: L17.Exts (pp287-288) • TG: L18.Exts (pp299-300)
<p>BENCHMARK / GLE</p>	<p>LS-M-C3.</p>	<p>Populations and Ecosystems: investigating major ecosystems and recognizing physical properties and organisms within each. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp07-23) • RB: (pp26-37) • RB: (pp40-51) • RB: (pp54-61) • RB: (pp57-59) • TG: L01 (pp3-12) • TG: L02 (pp13-24) • TG: L04-15 (pp39-164) • TG: L17 (pp169-171) • Experiments with Plants • RB: (pp24-25) • Organisms - From Macro to Micro • SG: L04 (pp38-45) • SG: L12-13 (pp146-171) • TG: L04 (pp49-56) • TG: L12-13 (pp201-236)
<p>BENCHMARK / GLE</p>	<p>LS-M-C4.</p>	<p>Populations and Ecosystems: explaining the interaction and interdependence of nonliving and living components within ecosystems. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp07-23) • RB: (pp26-37) • RB: (pp40-51) • RB: (pp54-61) • TG: L01-17 (pp3-171) • Experiments with Plants • RB: (pp24-25) • RB: (pp30-33) • TG: L06 (pp57-64) • TG: L07 (pp65-70) • Organisms - From Macro to Micro • SG: L04 (pp38-45) • SG: L09 (pp106-119)

**Carolina™ Curriculum Correlation to Louisiana Content Standards
Science Grades K–4 and 5–8**

		<ul style="list-style-type: none"> • SG: L12 (pp146-155) • TG: L01.Exts (p12) • TG: L04 (pp49-56) • TG: L09 (pp151-166) • TG: L12 (pp201-218) • TG: L18.Exts (pp299-300)
<p>BENCHMARK / GLE</p>	<p>LS-M-D1.</p>	<p>Adaptations of Organisms: describing the importance of plant and animal adaptation, including local examples. (1, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp11-13) • RB: (pp49-51) • TG: L01-07 (pp3-82) • TG: L12 (pp117-124) • TG: L17 (pp169-171) • Experiments with Plants • RB: (pp07-13) • RB: (pp20-21) • RB: (pp26-29) • RB: (pp30-33) • TG: L04 (pp39-50) • TG: L07 (pp65-70) • TG: L15.Exts (p117) • Organisms - From Macro to Micro • SG: L06 (pp64-81) • SG: L09 (pp106-119) • SG: L13 (pp158-171) • TG: L06 (pp73-104) • TG: L10.Exts (pp175-176) • TG: L13 (pp219-236) • TG: L18.Exts (pp299-300)
<p>BENCHMARK / GLE</p>	<p>LS-M-D2.</p>	<p>Adaptations of Organisms: explaining how some members of a species survive under changed environmental conditions. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L24 (pp264-273) • TG: L24 (pp329-346) • Ecosystems • RB: (pp11-23) • RB: (pp26-27) • RB: (pp49-51) • TG: L01-7 (pp3-82) • TG: L12 (pp117-124) • TG: L17 (pp169-171) • Experiments with Plants • RB: (pp11-13) • RB: (pp24-25) • RB: (pp30-33) • TG: L02.Exts (p24) • TG: L06 (pp57-64) • TG: L07 (pp65-70)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • Organisms - From Macro to Micro • SG: L06 (pp64-81) • SG: L09 (pp106-119) • SG: L12 (pp146-155) • SG: L13 (pp158-171) • TG: L06 (pp73-104) • TG: L09 (pp151-166) • TG: L10.Exts (pp175-176) • TG: L12 (pp201-218) • TG: L13 (pp219-236) • TG: L18.Exts (pp299-300)
CONTENT STANDARD	LA.ESS-M.	Earth and Space Science: The students will develop an understanding of the properties of earth materials, the structure of the Earth system, the Earth's history, and the Earth's place in the universe.
BENCHMARK / GLE	ESS-M-A1.	<p>Structure of the Earth: understanding that the Earth is layered by density with an inner and outer core, a mantle, and a thin outer crust. (1)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L04 (pp42-53) • SG: L10 (pp114-119) • SG: L14-15 (pp164-189) • SG: L17-18 (pp194-209) • TG: L04 (pp45-56) • TG: L10 (pp143-148) • TG: L14-15 (pp187-218) • TG: L17-18 (pp233-264) • Properties of Matter • SG: L01-3 (pp2-29) • SG: L05 (pp38-55) • SG: L09 (pp78-83) • SG: L19 (pp162-167) • SG: L26 (pp230-235) • TG: L01-5 (pp3-64) • TG: L09 (pp101-112) • TG: L19 (pp209-226) • TG: L26 (pp313-332)
BENCHMARK / GLE	ESS-M-A2.	<p>Structure of the Earth: understanding that the Earth's crust and solid upper mantle are dividing plates that move in response to convection currents (energy transfers) in the mantle. (1)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02-4 (pp12-53) • SG: L07 (pp80-95) • SG: L10 (pp114-119) • SG: L13-18 (pp154-209) • TG: L02-4 (pp17-56) • TG: L07 (pp83-102) • TG: L10 (pp143-148) • TG: L13-18 (pp177-264) • Earth in Space • SG: L09 (pp122-127)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L13 (pp174-199) • TG: L07 (pp83-96) • TG: L09 (pp121-146) • TG: L13 (pp197-208) • TG: L16.Exts (p256) • Properties of Matter • SG: L05 (pp38-55) • TG: L05 (pp49-64)
<p>BENCHMARK / GLE</p>	<p>ESS-M-A3.</p>	<p>Structure of the Earth: investigating the characteristics of earthquakes and volcano's and identifying zones where they may occur. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L01 (pp2-11) • SG: L06-8 (pp68-101) • SG: L10-25 (pp114-282) • TG: L01 (pp3-16) • TG: L06-8 (pp69-126) • TG: L10-25 (pp143-372) • Earth in Space • SG: L03-4 (pp22-61) • SG: L13 (pp174-199) • SG: L19 (pp312-323) • TG: L03-4 (pp21-52) • TG: L12 (pp181-196) • TG: L13 (pp197-208) • TG: L19 (pp287-292) • Properties of Matter • TG: L11.Exts (p132)
<p>BENCHMARK / GLE</p>	<p>ESS-M-A4.</p>	<p>Structure of the Earth: investigating how soils are formed from weathered rock and decomposed organic material. (2, 3, 4)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp36-38) • TG: L02-07 (pp13-84) • TG: L10-15 (pp109-172) • Earth in Space • SG: L13 (pp174-199) • TG: L13 (pp197-208) • Organisms - From Macro to Micro • TG: L05.Exts (pp69-70) • TG: L14.Exts (p247)
<p>BENCHMARK / GLE</p>	<p>ESS-M-A5.</p>	<p>Structure of the Earth: identifying the characteristics and uses of minerals and rocks and recognizing that rocks are mixtures of minerals. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L21-22 (pp232-251) • SG: L25 (pp274-282) • TG: L21-22 (pp293-316) • TG: L23.Exts (pp325-326)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L25 (pp347-372) • Earth in Space • SG: L18 (pp290-311) • TG: L12.Exts (pp192-193) • TG: L18 (pp277-286)
BENCHMARK / GLE	ESS-M-A6.	<p>Structure of the Earth: explaining the processes involved in the rock cycle. (1, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L09 (pp102-112) • SG: L21-22 (pp232-251) • SG: L24 (pp264-273) • TG: L09 (pp127-142) • TG: L19.Exts (pp274-275) • TG: L21-22 (pp293-316) • TG: L24 (pp329-346) • Earth in Space • SG: L13 (pp174-199) • TG: L13 (pp197-208)
BENCHMARK / GLE	ESS-M-A7.	<p>Structure of the Earth: modeling how landforms result from the interaction of constructive and destructive forces. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L01-25 (pp2-282) • TG: L01-25 (pp3-372)
BENCHMARK / GLE	ESS-M-A8.	<p>Structure of the Earth: identifying the man-made and natural causes of coastal erosion and the steps taken to combat it. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L24 (pp264-273) • TG: L24 (pp329-346)
BENCHMARK / GLE	ESS-M-A9.	<p>Structure of the Earth: compare and contrast topographic features of the ocean floor to those formed above sea level. (2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L01 (pp2-11) • SG: L19 (pp210-223) • TG: L01 (pp3-16) • TG: L14.Exts (pp193-194) • TG: L19 (pp265-278) • Earth in Space • SG: L13 (pp174-199) • SG: L19 (pp312-323) • TG: L12-13 (pp181-208) • TG: L19 (pp287-292)
BENCHMARK / GLE	ESS-M-A10.	<p>Structure of the Earth: explaining (illustrating) how water circulates -- on and through the crust, in the oceans, and in the atmosphere -- in the water cycle. (1, 4)</p>

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • Catastrophic Events • SG: L01 (pp2-11) • SG: L06-07 (pp68-95) • TG: L01 (pp3-16) • TG: L03.Exts (pp35-36) • TG: L06-07 (pp69-102) • TG: L22.Exts (p312) • TG: L23.Exts (pp325-326) • Earth in Space • SG: L05 (pp62-73) • SG: L07 (pp88-101) • SG: L20-21 (pp324-339) • TG: L05 (pp53-72) • TG: L06.Exts (p81) • TG: L07 (pp83-96) • TG: L08.Exts (pp108-109) • TG: L12.Exts (pp192-193) • TG: L20-21 (pp293-310) • Properties of Matter • SG: L01 (pp2-13) • TG: L05.Exts (p56)
<p>BENCHMARK / GLE</p>	<p>ESS-M-A11.</p>	<p>Structure of the Earth: understanding that the atmosphere interacts with the hydrosphere to affect weather and climate conditions. (1, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02-07 (pp12-95) • TG: L02-07 (pp17-44) • TG: L04.Exts (p54) • TG: L05-07 (pp57-102) • Earth in Space • SG: L19 (pp312-323) • TG: L19 (pp287-292) • Properties of Matter • TG: L05.Exts (p56)
<p>BENCHMARK / GLE</p>	<p>ESS-M-A12.</p>	<p>Structure of the Earth: predicting weather patterns through use of a weather map. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L01-07 (pp2-95) • SG: L10 (pp114-119) • SG: L13-15 (pp154-189) • SG: L18 (pp200-209) • SG: L25 (pp274-282) • TG: L01-07 (pp3-102) • TG: L08.Exts (p108) • TG: L13-15 (pp177-218) • TG: L18 (pp257-264) • TG: L24.Exts (pp337-338) • TG: L25 (pp347-372) • Earth in Space

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L03-04 (pp22-61) • TG: L03-04 (pp21-52)
BENCHMARK / GLE	ESS-M-B1.	<p>Earth History: investigating how fossils show the development of life over time. (2, 3, 4)</p> <ul style="list-style-type: none"> • Earth in Space • SG: L18 (pp290-311) • TG: L18 (pp277-286) • Organisms - From Macro to Micro • SG: L13 (pp158-171) • TG: L13 (pp219-236) • TG: L19.Exts (pp317-318)
BENCHMARK / GLE	ESS-M-B2.	<p>Earth History: devising a model that demonstrates supporting evidence that the Earth has existed for a vast period of time. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02 (pp12-25) • SG: L06 (pp68-79) • SG: L10-11 (pp114-133) • SG: L17 (pp194-197) • TG: L02 (pp17-26) • TG: L06 (pp69-82) • TG: L10-11 (pp143-162) • TG: L14.Exts (pp193-194) • TG: L17 (pp233-256) • TG: L23.Exts (pp325-326) • Earth in Space • SG: L02-07 (pp12-101) • SG: L09 (pp122-127) • SG: L11-14 (pp146-215) • SG: L18 (pp290-311) • TG: L01.Exts (p10) • TG: L02-07 (pp11-96) • TG: L08.Exts (pp108-109) • TG: L09 (pp121-146) • TG: L11-14 (pp159-220) • TG: L16.Exts (p256) • TG: L17.Exts (pp275-276) • TG: L18 (pp277-286) • Properties of Matter • SG: L01 (pp2-13)
BENCHMARK / GLE	ESS-M-B3.	<p>Earth History: understanding that earth processes such as erosion and weathering affect the Earth today and are similar to those which occurred in the past. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L09 (pp102-112) • SG: L24 (pp264-273) • TG: L09 (pp127-142) • TG: L19.Exts (pp274-275) • TG: L24 (pp329-346)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • Earth in Space • SG: L13 (pp174-199) • TG: L13 (pp197-208)
BENCHMARK / GLE	ESS-M-C1.	<p>Earth in the Solar System: identifying the characteristics of the sun and other stars. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Earth in Space • SG: L01-13 (pp2-199) • SG: L15 (pp216-243) • SG: L17-22 (pp268-343) • TG: L01-22 (pp3-326)
BENCHMARK / GLE	ESS-M-C2.	<p>Earth in the Solar System: comparing and contrasting the celestial bodies in our solar system. (2, 4)</p> <ul style="list-style-type: none"> • Energy, Machines, and Motion • TG: L05.Exts (pp53-54) • Earth in Space • SG: L01-22 (pp2-343) • TG: L01-22 (pp3-326)
BENCHMARK / GLE	ESS-M-C3.	<p>Earth in the Solar System: investigating the force of gravity and the ways gravity governs motion in the solar system and objects on Earth. (2, 3, 4)</p> <ul style="list-style-type: none"> • Earth in Space • SG: L01-22 (pp2-343) • TG: L01-22 (pp3-326)
BENCHMARK / GLE	ESS-M-C4.	<p>Earth in the Solar System: modeling the motions of the Earth-moon-sun system to explain day and night, a year, eclipses, moon phases, and tides. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02 (pp12-25) • SG: L06-07 (pp68-95) • SG: L11 (pp120-133) • SG: L17 (pp194-197) • TG: L01.Exts (pp10-11) • TG: L02 (pp17-26) • TG: L06-07 (pp69-102) • TG: L11 (pp149-162) • TG: L14.Exts (pp193-194) • TG: L17 (pp233-256) • TG: L23.Exts (pp325-326) • Earth in Space • SG: L01-09 (pp2-127) • SG: L11-14 (pp146-215) • SG: L16 (pp244-265) • SG: L18 (pp290-311) • TG: L01-09 (pp3-146) • TG: L11-16 (pp159-268) • TG: L17.Exts (pp275-276)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • TG: L18 (pp277-286)
BENCHMARK / GLE	ESS-M-C5.	<p>Earth in the Solar System: modeling the position of the Earth in relationship to other objects in the solar system. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02 (pp12-25) • SG: L06 (pp68-79) • SG: L11 (pp120-133) • SG: L17 (pp194-197) • TG: L02 (pp17-26) • TG: L06 (pp69-82) • TG: L11 (pp149-162) • TG: L14.Exts (pp193-194) • TG: L17 (pp233-256) • TG: L23.Exts (pp325-326) • Earth in Space • SG: L01-22 (pp2-343) • TG: L01-22 (pp3-326)
BENCHMARK / GLE	ESS-M-C6.	<p>Earth in the Solar System: modeling and describing how radiant energy from the sun affects phenomena on the Earth's surface, such as winds, ocean currents, and the water cycle. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L02-03 (pp12-41) • SG: L05-07 (pp54-95) • SG: L11 (pp120-133) • SG: L17 (pp194-197) • TG: L02-03 (pp17-44) • TG: L05-07 (pp57-102) • TG: L11 (pp149-162) • TG: L14.Exts (pp193-194) • TG: L17 (pp233-256) • TG: L23.Exts (pp325-326) • Earth in Space • SG: L02-09 (pp12-127) • SG: L11-14 (pp146-215) • SG: L18 (pp290-311) • TG: L01.Exts (p10) • TG: L02-09 (pp11-146) • TG: L11-14 (pp159-220) • TG: L16.Exts (p256) • TG: L17.Exts (pp275-276) • TG: L18 (pp277-286) • Properties of Matter • SG: L01 (pp2-13)
BENCHMARK / GLE	ESS-M-C7.	<p>Earth in the Solar System: modeling and explaining how seasons result from variations in amount of the sun's energy hitting the surface due to the tilt of Earth's rotation on its axis and the length of the day. (1, 2, 3, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L02-03 (pp12-41) • SG: L06-07 (pp68-95) • SG: L11 (pp120-133) • SG: L17 (pp194-197) • TG: L01.Exts (pp10-11) • TG: L02-03 (pp17-44) • TG: L06-07 (pp69-102) • TG: L11 (pp149-162) • TG: L14.Exts (pp193-194) • TG: L17 (pp233-256) • TG: L23.Exts (pp325-326) • Earth in Space • SG: L01-09 (pp2-127) • SG: L11-19 (pp146-323) • TG: L01-09 (pp3-146) • TG: L11-14 (pp159-220) • TG: L16-19 (pp245-292) • Organisms - From Macro to Micro • TG: L10.Exts (pp175-176)
BENCHMARK / GLE	ESS-M-C8.	<p>Earth in the Solar System: understanding that space exploration is an active area of scientific and technological research and development. (1, 5)</p> <ul style="list-style-type: none"> • Electrical Energy and Circuit Design • TG: L19.Exts (pp275-276) • Earth in Space • SG: L09-10 (pp122-145) • SG: L13-17 (pp174-289) • SG: L20 (pp324-333) • TG: L09-10 (pp121-158) • TG: L13-17 (pp197-276) • TG: L20 (pp293-308)
CONTENT STANDARD	LA.SE-M.	<p>Science and the Environment: In learning environmental science, students will develop an appreciation of the natural environment, learn the importance of environmental quality, and acquire a sense of stewardship. As consumers and citizens, they will be able to recognize how our personal, professional, and political actions affect the natural world.</p>
BENCHMARK / GLE	SE-M-A1.	<p>Demonstrating knowledge that an ecosystem includes living and nonliving factors and that humans are an integral part of ecosystems. (1, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp07-61) • TG: L01-17 (pp3-171) • Experiments with Plants • RB: (pp20-21) • RB: (pp24-25) • RB: (pp30-33) • TG: L02.Exts (p24) • TG: L06-07 (pp57-70) • Organisms - From Macro to Micro • SG: L04 (pp38-45) • SG: L06 (pp64-81)

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L09 (pp106-119) • SG: L12-13 (pp146-171) • TG: L01.Exts (p12) • TG: L04 (pp49-56) • TG: L09 (pp151-166) • TG: L12 (pp201-218) • TG: L18.Exts (pp299-300) • Properties of Matter • SG: L12 (pp106-111)
BENCHMARK / GLE	SE-M-A2.	<p>Demonstrating an understanding of how carrying capacity and limiting factors affect plant and animal populations. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp07-61) • TG: L01-17 (pp3-171) • Experiments with Plants • RB: (pp24-25) • Organisms - From Macro to Micro • SG: L04 (pp38-45) • SG: L06 (pp64-81) • SG: L12 (pp146-155) • TG: L01.Exts (p12) • TG: L04 (pp49-56) • TG: L05.Exts (pp69-70) • TG: L10.Exts (pp175-176) • TG: L12 (pp201-218)
BENCHMARK / GLE	SE-M-A3.	<p>Defining the concept of pollutant and describing the effects of various pollutants on ecosystems. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L23-24 (pp252-273) • TG: L23-24 (pp217-346) • Ecosystems • RB: (pp20-42) • RB: (pp60-61) • TG: L01-17 (pp3-171) • Experiments with Plants • RB: (pp20-21) • RB: (pp24-25) • TG: L02.Exts (p24) • Organisms - From Macro to Micro • SG: L06 (pp64-81) • SG: L12-13 (pp146-171) • TG: L04.Exts (pp53-54) • TG: L12 (pp201-218) • Properties of Matter • SG: L12 (pp106-111)
BENCHMARK / GLE	SE-M-A4.	<p>Understanding that human actions can create risks and consequences in the environment. (1, 2, 3, 4, 5)</p>

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • Catastrophic Events • SG: L23-24 (pp252-273) • TG: L23-24 (pp217-346) • Ecosystems • RB: (pp31-42) • RB: (pp60-61) • TG: L08-11 (pp83-116) • Experiments with Plants • RB: (pp20-21) • RB: (pp24-25) • TG: L02.Exts (p24) • Organisms - From Macro to Micro • SG: L06 (pp64-81) • SG: L13 (pp158-171) • TG: L04.Exts (pp53-54) • Properties of Matter • SG: L12 (pp106-111)
<p>BENCHMARK / GLE</p>	<p>SE-M-A5.</p>	<p>Tracing the flow of energy through an ecosystem and demonstrating a knowledge of the roles of producers, consumers, and decomposers in the ecosystem. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp07-61) • TG: L01-15 (pp3-164) • TG: L17 (pp169-171) • Experiments with Plants • RB: (pp24-25) • Organisms - From Macro to Micro • SG: L04 (pp38-45) • SG: L12 (pp146-155) • SG: L14 (pp172-179) • TG: L04 (pp49-56) • TG: L12 (pp201-218) • TG: L14 (pp237-252)
<p>BENCHMARK / GLE</p>	<p>SE-E-A6.</p>	<p>Distinguishing between renewable and nonrenewable resources and understanding that nonrenewable natural resources are not replenished through the natural cycles and thus are strictly limited in quantity. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • RB: (pp45-48) • RB: (pp57-59) • Energy, Machines, and Motion • SG: L04 (pp26-35)
<p>BENCHMARK / GLE</p>	<p>SE-M-A7.</p>	<p>Demonstrating knowledge of the natural cycles, such as the carbon cycle, nitrogen cycle, water cycle, and oxygen cycle. (1, 2, 4)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L06 (pp68-79) • TG: L06 (pp69-82) • Organisms - From Macro to Micro

Carolina™ Curriculum Correlation to Louisiana Content Standards Science Grades K–4 and 5–8

		<ul style="list-style-type: none"> • SG: L10 (pp120-131) • Properties of Matter • SG: L01 (pp2-13)
BENCHMARK / GLE	SE-M-A8.	<p>Investigating and analyzing how technology affects the physical, chemical, and biological factors in an ecosystem. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L09 (pp102-112) • SG: L23-24 (pp252-273) • TG: L09 (pp127-142) • TG: L23-24 (pp217-346) • Ecosystems • TG: L08-09 (pp83-98) • TG: L12-16 (pp117-168) • Energy, Machines, and Motion • SG: L04 (pp26-35) • Earth in Space • SG: L20-21 (pp324-339) • TG: L20-21 (pp293-310) • Organisms - From Macro to Micro • TG: L04.Exts (pp53-54) • Properties of Matter • TG: L03.Exts (p32) • TG: L21.Exts (p251)
BENCHMARK / GLE	SE-M-A9.	<p>Demonstrating relationships of characteristics of soil types to agricultural practices and productivity. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Catastrophic Events • SG: L17 (pp194-197) • TG: L17 (pp233-256) • Ecosystems • RB: (pp45-48) • TG: L02 (pp13-24) • Experiments with Plants • RB: (pp14-17) • RB: (pp41-46) • RB: (pp50-56) • Organisms - From Macro to Micro • TG: L03.Exts (p41) • TG: L14.Exts (p247)
BENCHMARK / GLE	SE-M-A10.	<p>Identifying types of soil erosion and preventive measures. (1, 2, 3, 4, 5)</p> <ul style="list-style-type: none"> • Ecosystems • TG: L02 (pp13-24) • Organisms - From Macro to Micro • TG: L14.Exts (p247)

Carolina Biological Supply Company

**Carolina™ Curriculum Correlation to Louisiana Content Standards
Science Grades K–4 and 5–8**

2700 York Road • Burlington NC 27215-3398
800.227.1150 • www.carolinacurriculum.com