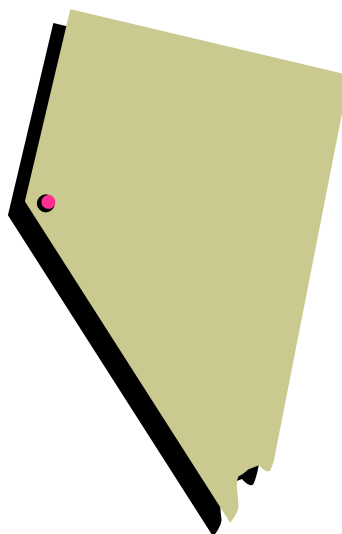


A Correlation of the **STC PROGRAM™** with The Nevada Elementary Science Curriculum Standards



Prepared by

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Introduction

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

This document gives a quick visual guide to the alignment of selected STC® units with the Nevada Science Curriculum Standards, grades K–5. Although each STC® unit was developed for use at a specific grade level, there is some flexibility in grade placement. Recommended grade ranges are indicated in the chart below.

Carolina publishes additional units in the STC PROGRAM™ that are not included in this document. For more information about any STC PROGRAM™ unit, visit www.carolinacurriculum.com

STC PROGRAM™ Units with Recommended Grade Ranges

Grades	Life Science	Earth Science	Physical Science	Technology
K–2	<i>Organisms</i> (O)	<i>Weather</i> (W)	<i>Solids and Liquids</i> (SL) <i>Changes</i> (C)	
3–5	<i>The Life Cycle of Butterflies</i> (LCB) <i>Animal Studies</i> (AS)	<i>Rocks and Minerals</i> (RM) <i>Land and Water</i> (LW) <i>Ecosystems</i> (E)	<i>Chemical Tests</i> (CT) <i>Electric Circuits</i> (EC)	<i>Sound</i> (So) <i>Motion and Design</i> (MD)

Legend

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

- Unit abbreviations = noted in parentheses in the chart above
- TG = Teacher’s Guide
- S-Sec3 = Section 3 (containing a section on safety) in the STC® Teacher’s Guide
- Sec4 = Section 4 (containing the unit lessons) in the Teacher’s Guide
- L01, L02, etc. = Lesson 1, Lesson 2, etc.
- p, pp = page, pages
- 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)
- App-A, App-B = Appendix A, Appendix B (found at the end of Section 4 in the Teacher’s Guide)

**A Correlation of the STC PROGRAM™ with
The Nevada Elementary Science Standards**

GRADES K-2		
CONTENT STANDARD	NV.N.2.A.	Scientific Inquiry (Nature of Science Unifying Concept A): Students understand that science is an active process of systematically examining the natural world.
BENCHMARK	N.2.A.1.	Using Data: Students know how to make observations and give descriptions using words, numbers, and drawings. E/S Grades K-2 C - TG: Sec4.L01-L17 (pp10-158) O - TG: Sec4.L01-L17 (pp3-182) SL - TG: Sec4.L01-L17 (pp3-140) W - TG: Sec4.L01-L17 (pp3-150)
BENCHMARK	N.2.A.2.	Safe Experimentation: Students know tools can be used safely to gather data and extend the senses. I/L Grades K-2 C - TG: S-Sec3 (pp9-29) O - TG: Sec4.L02 (pp11-20) O - TG: S-Sec3 (pp19-24) SL - TG: Sec4.L05.Exts (pp43-45) SL - TG: Sec4.L11 (pp87-94) SL - TG: S-Sec3 (pp9-18) W - TG: Sec4.L02 (pp11-24) W - TG: Sec4.L05-L10 (pp43-100) W - TG: S-Sec3 (pp9-12)
BENCHMARK	N.2.A.3.	Models: Students know observable patterns can be used to predict future events or sort items. E/S Grades K-2 C - TG: Sec4.L01.Exts (pp10-11) C - TG: Sec4.L02 (pp21-30) C - TG: Sec4.L03 (pp31-42) C - TG: Sec4.L06.Exts (pp67-69) C - TG: Sec4.L09 (pp85-94) C - TG: Sec4.L11 (pp103-110) C - TG: Sec4.L13.Exts (p123) C - TG: Sec4.L14 (pp129-136) C - TG: Sec4.L16 (pp147-154) O - TG: Sec4.L01 (pp3-10) O - TG: Sec4.L02.Exts (pp15-16) O - TG: Sec4.L03 (pp21-36) O - TG: Sec4.L05.Exts (p59) O - TG: Sec4.L13 (pp135-148) O - TG: Sec4.L14 (pp149-154) O - TG: Sec4.L17 (pp179-182) SL - TG: Sec4.L01-L17 (pp3-140) W - TG: Sec4.L03 (pp25-32) W - TG: Sec4.L08.Exts (p76) W - TG: Sec4.L11.Exts (p104) W - TG: Sec4.L14 (pp129-134)

CONTENT STANDARD	NV.N.2.B.	Science, Technology, and Society (Nature of Science Unifying Concept B): Students understand that many people contribute to the field of science.
BENCHMARK	N.2.B.1.	Risks and Benefits: Students know science engages men and women of all ages and backgrounds. E/S Grades K-2 W - TG: Sec4.L11 (pp101-112) W - TG: Sec4.L12 (pp113-122)
BENCHMARK	N.2.B.2.	Collaboration: Students know that, in science, it is helpful to work in a team and share findings with others. E/L Grades K-2 O - TG: Sec4.L03-L17 (pp21-176) SL - TG: Sec4.L01 (pp3-10) SL - TG: Sec4.L09 (pp69-80) SL - TG: Sec4.L11.Exts (p92) SL - TG: Sec4.L17 (pp137-140) W - TG: Sec4.L01-L17 (pp3-150)
CONTENT STANDARD	NV.P.2.A.	Matter (Physical Science Unifying Concept A): Students understand that matter has observable properties.
BENCHMARK	P.2.A.1.	Properties of Matter: Students know matter can exist as solids and as liquids. E/S Grades K-2 C - TG: Sec4.L01 (pp3-20) SL - TG: Sec4.L01-L17 (pp3-140) W - TG: Sec4.L10.Exts (p95)
BENCHMARK	P.2.A.2.	Properties of Matter: Students know some properties of materials can be changed by heating, freezing, mixing, cutting, or bending. E/S Grades K-2 C - TG: Sec4.L01-L04 (pp3-52) C - TG: Sec4.L12 (pp111-118) C - TG: Sec4.L13.Exts (p123) C - TG: Sec4.L17 (pp155-158) SL - TG: Sec4.L13.Exts (pp104-105) W - TG: Sec4.L05.Exts (pp47-48) W - TG: Sec4.L08.Exts (p76)
BENCHMARK	P.2.A.3.	Properties of Matter: Students know matter can be categorized by observable properties, such as color, size, shape, and weight. E/S Grades K-2 C - TG: Sec4.L01 (pp3-20) C - TG: Sec4.L06.Exts (pp67-69) C - TG: Sec4.L09.Exts (pp89-90) C - TG: Sec4.L11 (pp103-110) C - TG: Sec4.L13.Exts (p123) C - TG: Sec4.L14.Exts (p134) O - TG: Sec4.L01 (pp3-10) O - TG: Sec4.L02.Exts (pp15-16)

		<p>O - TG: Sec4.L05.Exts (p59) O - TG: Sec4.L13 (pp135-148) O - TG: Sec4.L14 (pp149-154) O - TG: Sec4.L17 (pp179-182) SL - TG: Sec4.L01-L17 (pp3-140) W - TG: Sec4.L03 (pp25-32) W - TG: Sec4.L14 (pp129-134)</p>
BENCHMARK	P.2.A.4.	<p>Atomic Structure: Students know different objects are made of many different types of materials. E/S Grades K-2 SL - TG: Sec4.L02-L17 (pp11-140)</p>
CONTENT STANDARD	NV.P.2.B.	<p>Forces and Motion (Physical Science Unifying Concept B): Students understand that position and motion of objects can be described.</p>
BENCHMARK	P.2.B.1.	<p>Motion: Students know the position and motion of an object can be changed by pushing or pulling. E/S Grades K-2 SL - TG: Sec4.L04 (pp29-40)</p>
BENCHMARK	P.2.B.2.	<p>Motion: Students know things move in many different ways and at different speeds (e.g., straight line, zigzag, vibration, circular motion, fast/slow). E/S Grades K-2 SL - TG: Sec4.L03.Exts (pp22-23) SL - TG: Sec4.L04 (pp29-40)</p>
BENCHMARK	P.2.B.3.	<p>Forces: Students know magnets can be used to make some things move without being touched. E/S Grades K-2 SL - TG: Sec4.L07 (pp55-62)</p>
CONTENT STANDARD	NV.P.2.C.	<p>Energy (Physical Science Unifying Concept C): Students know heat, light, and sound can be produced.</p>
BENCHMARK	P.2.C.2.	<p>Forms and Uses of Energy: Students know objects can be described as hot or cold relative to another object. I/L Grades K-2 W - TG: Sec4.App-A (pp151-152) W - TG: Sec4.App-B (pp153-167) W - TG: Sec4.L05-L09 (pp43-90)</p>
CONTENT STANDARD	NV.L.2.A.	<p>Heredity (Life Science Unifying Concept A): Students understand that offspring resemble their parents.</p>
BENCHMARK	L.2.A.2.	<p>Predicting: Students know differences exist among individuals of the same kind of plant or animal. E/S Grades K-2 O - TG: Sec4.L12.Exts (p131) O - TG: Sec4.L13.Exts (pp139-140)</p>

CONTENT STANDARD	NV.L.2.B.	Structure of Life (Life Science Unifying Concept B): Students understand that living things have identifiable characteristics.
BENCHMARK	L.2.B.1.	Cells: Students know humans and other animals use their senses to know their world. E/S Grades K-2 C - TG: Sec4.L01.Exts (pp10-11) C - TG: Sec4.L17 (pp155-158) SL - TG: Sec4.L05.Exts (pp43-45)
CONTENT STANDARD	NV.L.2.C.	Organisms and Their Environment (Life Science Unifying Concept C): Students understand that living things live in different places.
BENCHMARK	L.2.C.1.	Cycles: Students know plants and animals need certain resources for energy and growth. E/S Grades K-2 O - TG: Sec4.L03-L04 (pp21-52) O - TG: Sec4.L06-L10 (pp65-118) O - TG: Sec4.L13 (pp135-148) O - TG: Sec4.L15 (pp155-168) O - TG: Sec4.L16 (pp169-178) W - TG: Sec4.L10.Exts (p95)
BENCHMARK	L.2.C.2.	Cycles: Students know a habitat includes food, water, shelter and space. E/S Grades K-2 O - TG: Sec4.L04 (pp36-52) O - TG: Sec4.L05.Exts (p59) O - TG: Sec4.L11 (pp119-126) O - TG: Sec4.L12 (pp127-134) O - TG: Sec4.L15.Exts (pp159-160)
BENCHMARK	L.2.C.3.	Ecosystems: Students know living things are found almost everywhere in the world. E/S Grades K-2 O - TG: Sec4.L12.Exts (p131) O - TG: Sec4.L13.Exts (pp139-140)
CONTENT STANDARD	NV.L.2.D.	Diversity of Life (Life Science Unifying Concept D): Students understand that there are many kinds of living things on Earth.
BENCHMARK	L.2.D.1.	Evolution: Students know plants and animals can be sorted by observable characteristics and behaviors. E/S Grades K-2 O - TG: Sec4.L01 (pp3-10) O - TG: Sec4.L02.Exts (pp15-16) O - TG: Sec4.L05.Exts (p59) O - TG: Sec4.L17 (pp179-182)
CONTENT STANDARD	NV.E.2.A.	Atmospheric Processes and the Water Cycle (Earth and Space Science Unifying Concept A): Students understand that changes in weather often involve water changing from one state to another.

BENCHMARK	E.2.A.2.	<p>Weather: Students know water on Earth can be a liquid (rain) or a solid (snow and ice), and can go back and forth from one form to the other. E/S</p> <p>Grades K-2 C - TG: Sec4.L02 (pp21-30) C - TG: Sec4.L03 (pp31-42) C - TG: Sec4.L08 (pp79-84) SL - TG: Sec4.L10.Exts (p85) W - TG: Sec4.L05.Exts (pp47-48) W - TG: Sec4.L08.Exts (p76) W - TG: Sec4.L10.Exts (p95) W - TG: Sec4.L11 (pp101-112) W - TG: Sec4.L13.Exts (p126)</p>
BENCHMARK	E.2.A.3.	<p>Weather: Students know weather changes from day to day and seasonally. I/S</p> <p>Grades K-2 W - TG: Sec4.L15 (pp135-140) W - TG: Sec4.L17 (pp149-150)</p>
BENCHMARK	E.2.A.4.	<p>Weather: Students know weather can be described by measurable quantities such as temperature, wind direction and speed, and precipitation. I/L</p> <p>Grades K-2 W - TG: Sec4.App-A (pp151-152) W - TG: Sec4.App-B (pp153-167) W - TG: Sec4.L03 (pp25-32) W - TG: Sec4.L05 (pp43-54) W - TG: Sec4.L06 (pp55-62) W - TG: Sec4.L07 (pp63-70) W - TG: Sec4.L10 (pp91-100) W - TG: Sec4.L15 (pp135-140) W - TG: Sec4.L17 (pp149-150)</p>
CONTENT STANDARD	NV.E.2.B.	<p>Solar System and Universe (Earth and Space Science Unifying Concept B): Students understand there are objects in the sky, which display patterns.</p>
BENCHMARK	E.2.B.1.	<p>Components of the Universe: Students know objects in the sky display patterns in how they look, where they are located, and how they move. I/S</p> <p>Grades K-2 W - TG: Sec4.L03.Exts (p29) W - TG: Sec4.L07 (pp63-70) W - TG: Sec4.L12 (pp113-122) W - TG: Sec4.L15.Exts (p137)</p>
CONTENT STANDARD	NV.E.2.C.	<p>Earth's Composition and Structure (Earth and Space Science Unifying Concept C): Students understand that Earth materials include rocks, soils, and water.</p>

BENCHMARK	E.2.C.1.	Geologic Processes: Students know Earth is composed of different kinds of materials (e.g. rocks, soils, and water) E/S Grades K-2 SL - TG: Sec4.L04.Exts (p34)
BENCHMARK	E.2.C.2.	Earth's Composition and Resources: Students know rocks come in many sizes and shapes, with various textures and colors. E/S Grades K-2 SL - TG: Sec4.L04.Exts (p34)
GRADES 3–5		
CONTENT STANDARD	NV.N.5.A.	Scientific Inquiry (Nature of Science Unifying Concept A): Students understand that science involves asking and answering questions and comparing the answers to what scientists know about the world.
BENCHMARK	N.5.A.1.	Using Data: Students know scientific progress is made by conducting careful investigations, recording data, and communicating the results in an accurate method. E/S Grades 3-5 AS - TG: Sec4.L04-L12 (pp37-134) AS - TG: Sec4.L17 (pp169-172) CT - TG: Sec4.L01-L17 (pp3-158) CT - TG: S-Sec3 (pp18-46) E - RB: (pp43-44) E - TG: Sec4.L02-L17 (pp13-171) EC - RB: (pp07-16) EC - RB: (pp60-61) EC - TG: Sec4.L01-L17 (pp3-86) LCB - TG: Sec4.L01-L16 (pp3-96) LW - RB: (pp47-49) LW - TG: Sec4.L01-L17 (pp3-186) MD - RB: (pp23-28) MD - TG: Sec4.L01-L17 (pp1-156) RM - TG: Sec4.L01-L16 (pp3-126) So - TG: Sec4.L01-L17 (pp11-118) So - TG: S-Sec3 (pp9-12)
BENCHMARK	N.5.A.2.	Using Data: Students know how to compare the results of their experiments to what scientists already know about the world. I/L Grades 3-5 AS - TG: Sec4.L16 (pp165-168) CT - TG: Sec4.L01-L17 (pp3-158) E - TG: Sec4.L13 (pp125-132) LW - TG: Sec4.L06 (pp63-74) LW - TG: Sec4.L08 (pp85-98) LW - TG: Sec4.L10 (pp109-118) LW - TG: Sec4.L11 (pp119-128) LW - TG: Sec4.L12 (pp129-142) LW - TG: Sec4.L15 (pp163-172) LW - TG: Sec4.L16 (pp173-182) MD - TG: Sec4.L04 (pp35-46) MD - TG: Sec4.L05 (pp47-56) MD - TG: Sec4.L07 (pp65-72)

		<p>MD - TG: Sec4.L10 (pp91-100) MD - TG: Sec4.L12 (pp109-116) MD - TG: Sec4.L15 (pp139-144) MD - TG: Sec4.L16 (pp145-152) RM - TG: Sec4.L01-L16 (pp3-126) So - TG: Sec4.L01-L14 (pp11-102) So - TG: Sec4.L17 (pp117-118)</p>
BENCHMARK	N.5.A.3.	<p>Record-keeping: Students know how to draw conclusions from scientific evidence. E/S</p> <p>Grades 3-5 CT - TG: Sec4.L01-L16 (pp3-154) LW - TG: Sec4.L05 (pp51-62) LW - TG: Sec4.L10 (pp109-118) LW - TG: Sec4.L13 (pp143-152) LW - TG: Sec4.L14 (pp153-162) LW - TG: Sec4.L17 (pp182-186) MD - TG: Sec4.L03 (pp25-34) RM - TG: Sec4.L01-L17 (pp3-128) So - TG: Sec4.L01-L14 (pp11-102) So - TG: Sec4.L17 (pp117-118)</p>
BENCHMARK	N.5.A.4.	<p>Accuracy: Students know graphic representations of recorded data can be used to make predictions. E/S</p> <p>Grades 3-5 AS - TG: Sec4.L02-L06 (pp11-74) AS - TG: Sec4.L08 (pp87-96) AS - TG: Sec4.L09 (pp97-106) AS - TG: Sec4.L15 (pp157-164) CT - TG: Sec4.L05 (pp45-56) CT - TG: Sec4.L08 (pp79-84) CT - TG: Sec4.L11 (pp101-106) E - TG: Sec4.L02-L12 (pp13-124) E - TG: Sec4.L14 (pp133-144) EC - TG: Sec4.L02-L16 (pp7-84) LW - TG: Sec4.L01 (pp3-10) LW - TG: Sec4.L02 (pp11-28) LW - TG: Sec4.L04 (pp37-50) LW - TG: Sec4.L05 (pp51-62) LW - TG: Sec4.L07 (pp75-84) LW - TG: Sec4.L08 (pp85-98) LW - TG: Sec4.L09 (pp99-108) LW - TG: Sec4.L12 (pp129-142) LW - TG: Sec4.L13 (pp143-152) MD - TG: Sec4.L04 (pp35-46) RM - TG: Sec4.L03 (pp19-26) So - TG: Sec4.L04 (pp28-32) So - TG: Sec4.L05 (pp33-38) So - TG: Sec4.L06 (pp39-48) So - TG: Sec4.L17 (pp117-118)</p>
BENCHMARK	N.5.A.5.	<p>Safe Experimentation: Students know how to plan and conduct a safe and simple investigation. E/S</p> <p>Grades 3-5 AS - TG: Sec4.L04 (pp37-48)</p>

		<p>AS - TG: Sec4.L06 (pp65-74) AS - TG: S-Sec3 (pp16-26) CT - TG: Sec4.L02 (pp13-22) CT - TG: Sec4.L04.Exts (p39) CT - TG: Sec4.L10 (pp93-100) CT - TG: Sec4.L12.Exts (pp109-110) CT - TG: S-Sec3 (pp18-46) E - RB: (pp43-44) E - TG: Sec4.L06 (pp61-74) E - TG: S-Sec3 (pp34-44) EC - RB: (pp29-33) EC - RB: (pp42-44) EC - TG: Sec4.L01 (pp3-6) EC - TG: Sec4.L02 (pp7-14) EC - TG: Sec4.L08 (pp45-48) EC - TG: S-Sec3 (pp16-19) LCB - TG: Sec4.L02 (pp11-18) LCB - TG: S-Sec3 (pp17-22) LW - TG: Sec4.L02 (pp11-28) LW - TG: Sec4.L04 (pp37-50) LW - TG: Sec4.L06 (pp63-74) LW - TG: Sec4.L15 (pp163-172) LW - TG: S-Sec3 (pp13-18) MD - TG: Sec4.L02-L13 (pp15-124) MD - TG: Sec4.L15 (pp139-144) MD - TG: Sec4.L17 (pp153-156) MD - TG: S-Sec3 (pp8-11) RM - TG: S-Sec3 (pp10-14) So - TG: Sec4.L12.Exts (p88) So - TG: S-Sec3 (pp9-12)</p>
BENCHMARK	N.5.A.6.	<p>Models: Students know models are tools for learning about the things they are meant to resemble. I/S</p> <p>Grades 3-5 E - TG: Sec4.L02-L07 (pp13-82) EC - TG: Sec4.L02-L16 (pp7-84) LW - TG: Sec4.L02 (pp11-28) LW - TG: Sec4.L03 (pp29-36) LW - TG: Sec4.L04 (pp37-50) LW - TG: Sec4.L09 (pp99-108) LW - TG: Sec4.L10 (pp109-118) LW - TG: Sec4.L12 (pp129-142) So - TG: Sec4.L07 (pp49-56) So - TG: Sec4.L08 (pp57-62) So - TG: Sec4.L11 (pp73-78) So - TG: Sec4.L13 (pp85-90) So - TG: Sec4.L14.Exts (p98)</p>
BENCHMARK	N.5.A.7.	<p>Models: Students know observable patterns can be used to organize items and ideas. E/S</p> <p>Grades 3-5 LCB - TG: Sec4.L01 (pp3-10) LCB - TG: Sec4.L04 (pp23-28) LCB - TG: Sec4.L08 (pp47-52) LCB - TG: Sec4.L11 (pp69-74) LCB - TG: Sec4.L12 (pp75-80) MD - TG: Sec4.L07 (pp65-72)</p>

CONTENT STANDARD	NV.N.5.B.	Science, Technology, and Society (Nature of Science Unifying Concept B): Students understand that many people, from all cultures and levels of ability, contribute to the fields of science and technology.
BENCHMARK	N.5.B.1.	<p>Risks and Benefits: Students know that, throughout history, people of diverse cultures have provided scientific knowledge and technologies. E/S</p> <p>Grades 3-5 AS - RB: (pp45-52) AS - RB: (pp56-57) AS - TG: Sec4.L08.Exts (p94) AS - TG: Sec4.L12.Exts (p129) AS - TG: Sec4.L16.Exts (p167) E - RB: (pp07-10) E - RB: (pp54-56) E - RB: (pp57-59) E - RB: (pp60-61) EC - RB: (pp07-21) LW - RB: (pp07-09) LW - RB: (pp32-35) LW - RB: (pp36-38) LW - RB: (pp41-44) LW - RB: (pp57-58) MD - RB: (pp23-28) MD - RB: (pp41-43)</p>
BENCHMARK	N.5.B.2.	<p>Risks and Benefits: Students know technologies impact society, both positively and negatively. E/S</p> <p>Grades 3-5 AS - TG: Sec4.L03.Exts (p32) E - RB: (pp35-37) E - TG: Sec4.L08 (pp83-94) E - TG: Sec4.L09 (pp95-98) E - TG: Sec4.L12-L16 (pp117-168) EC - RB: (pp17-21) LW - TG: Sec4.L13.Exts (pp147-148) MD - RB: (pp29-31) MD - RB: (pp32-36)</p>
BENCHMARK	N.5.B.3.	<p>Collaboration: Students know the benefits of working with a team and sharing findings. E/L</p> <p>Grades 3-5 AS - RB: (pp58-61) AS - TG: Sec4.L17 (pp169-172) CT - TG: Sec4.L01-L16 (pp3-154) E - RB: All readings E - TG: Sec4.L02-L10 (pp13-110) E - TG: Sec4.L12-L17 (pp117-171) EC - TG: Sec4.L01-L17 (pp3-86) LCB - TG: Sec4.L01-L16 (pp3-96) LW - TG: Sec4.L01-L05 (pp3-62) LW - TG: Sec4.L08 (pp85-98) LW - TG: Sec4.L10-L14 (pp109-162) LW - TG: Sec4.L16 (pp173-182)</p>

		<p>LW - TG: Sec4.L17 (pp182-186) MD - TG: Sec4.L01-L04 (pp1-46) MD - TG: Sec4.L06-L17 (pp57-156) So - TG: Sec4.L01-L14 (pp11-102) So - TG: Sec4.L17 (pp117-118)</p>
CONTENT STANDARD	NV.P.5.A.	Matter (Physical Science Unifying Concept A): Students understand properties of objects and materials.
BENCHMARK	P.5.A.1.	<p>Properties of Matter: Students know matter exists in different states (i.e., solid, liquid, gas) which have distinct physical properties. E/S</p> <p>Grades 3-5 CT - TG: Sec4.L11.Exts (pp103-104) CT - TG: Sec4.L16.Exts (pp152-153) CT - TG: Sec4.L17 (pp155-158) RM - TG: Sec4.L01 (pp3-12) RM - TG: Sec4.L02 (pp13-18) RM - TG: Sec4.L13 (pp91-94) So - TG: Sec4.L12.Exts (p88)</p>
BENCHMARK	P.5.A.2.	<p>Properties of Matter: Students know heating or cooling can change some common materials, such as water, from one state to another. E/S</p> <p>Grades 3-5 CT - TG: Sec4.L08.Exts (p82) CT - TG: Sec4.L10 (pp93-100) LW - TG: Sec4.L02.Exts (p19)</p>
BENCHMARK	P.5.A.3.	<p>Properties of Matter: Students know materials can be classified by their observable physical and chemical properties (e.g., magnetism, conductivity, density, and solubility). E/S</p> <p>Grades 3-5 CT - TG: Sec4.L10.Exts (p97) CT - TG: Sec4.L11.Exts (pp103-104) CT - TG: Sec4.L15.Exts (pp140-141) CT - TG: Sec4.L16 (pp149-154) CT - TG: Sec4.L17 (pp155-158) RM - TG: Sec4.L01-L12 (pp3-90) RM - TG: Sec4.L17 (pp127-128)</p>
BENCHMARK	P.5.A.4.	<p>Mixtures and Compounds: Students know that, by combining two or more materials, the properties of that material can be different from the original materials. E/S</p> <p>Grades 3-5 CT - TG: Sec4.L10.Exts (p97) CT - TG: Sec4.L11.Exts (pp103-104) CT - TG: Sec4.L15.Exts (pp140-141) CT - TG: Sec4.L16.Exts (pp152-153) CT - TG: Sec4.L17 (pp155-158) E - TG: Sec4.L13.Exts (p127)</p>
CONTENT STANDARD	NV.P.5.B.	Forces and Motion (Physical Science Unifying Concept B): Students understand that forces can change the position and motion of an object.

BENCHMARK	P.5.B.1.	<p>Motion: Students know that, when an unbalanced force is applied to an object, the object either speeds up, slows down, or goes in a different direction. E/S</p> <p>Grades 3-5 LW - TG: Sec4.L07 (pp75-84) LW - TG: Sec4.L13 (pp143-152) MD - TG: Sec4.L03 (pp25-34) MD - TG: Sec4.L04 (pp35-46) MD - TG: Sec4.L05 (pp47-56) MD - TG: Sec4.L07-L13 (pp65-124) MD - TG: Sec4.L15 (pp139-144) MD - TG: Sec4.L16 (pp145-152) MD - TG: Sec4.L17 (pp153-156)</p>
BENCHMARK	P.5.B.2.	<p>Motion: Students know how the strength of a force and mass of an object influence the amount of change in an object's motion. E/S</p> <p>Grades 3-5 MD - TG: Sec4.L03 (pp25-34) MD - TG: Sec4.L04 (pp35-46) MD - TG: Sec4.L05 (pp47-56) MD - TG: Sec4.L07.Exts (pp68-69) MD - TG: Sec4.L08-L13 (pp73-124) MD - TG: Sec4.L15 (pp139-144) MD - TG: Sec4.L17 (pp153-156)</p>
BENCHMARK	P.5.B.3.	<p>Forces: Students know a magnetic force causes certain kinds of objects to attract and repel each other. E/S</p> <p>Grades 3-5 RM - TG: Sec4.L11.Exts (p80)</p>
BENCHMARK	P.5.B.5.	<p>Forces: Students know Earth's gravity pulls any object toward it without touching it. E/S</p> <p>Grades 3-5 LW - TG: Sec4.L13 (pp143-152) MD - TG: Sec4.L03.Exts (pp29-30)</p>
CONTENT STANDARD	NV.P.5.C.	<p>Energy (Physical Science Unifying Concept C): Students understand that energy exists in different forms.</p>
BENCHMARK	P.5.C.1.	<p>Waves: Students know light can be described in terms of simple properties (e.g., color, brightness, reflection). I/S</p> <p>Grades 3-5 CT - TG: Sec4.L10.Exts (p97) E - TG: Sec4.L10.Exts (p103) So - TG: Sec4.L12.Exts (p88)</p>
BENCHMARK	P.5.C.2.	<p>Waves: Students know the wave characteristics of sound. E/S</p> <p>Grades 3-5 So - TG: Sec4.L01-L17 (pp11-16)</p>
BENCHMARK	P.5.C.3.	<p>Forms and Uses of Energy: Students know heat is often produced as a byproduct when one form of energy is converted to another form (e.g., when machines and living organisms convert stored energy to motion). E/S</p>

		<p>Grades 3-5 CT - TG: Sec4.L10 (pp93-100) EC - RB: (pp24-28) EC - RB: (pp36-38) MD - TG: Sec4.L06 (pp57-64) MD - TG: Sec4.L07 (pp65-72) MD - TG: Sec4.L12 (pp109-116) MD - TG: Sec4.L15 (pp139-144)</p>
BENCHMARK	P.5.C.4.	<p>Forms and Uses of Energy: Students know heat can move from one object to another by conduction, and some materials conduct heat better than others. E/S</p> <p>Grades 3-5 EC - RB: (pp11-31) EC - TG: Sec4.L02 (pp7-14) EC - TG: Sec4.L07 (pp39-44) EC - TG: Sec4.L09 (pp49-52)</p>
BENCHMARK	P.5.C.5.	<p>Electricity: Students know the organization of a simple electrical circuit (i.e., battery or generator, wire, a complete loop through which the electrical current can pass). I/L</p> <p>Grades 3-5 EC - RB: (pp13-16) EC - RB: (pp29-31) EC - RB: (pp32-33) EC - RB: (pp39-41) EC - RB: (pp42-44) EC - TG: Sec4.L01-L17 (pp3-86)</p>
CONTENT STANDARD	NV.L.5.A.	<p>Heredity (Life Science Unifying Concept A): Students understand that some characteristics are inherited and some are not.</p>
BENCHMARK	L.5.A.1.	<p>DNA: Students know some physical characteristics and behaviors that are inherited in animals and plants. E/S</p> <p>Grades 3-5 AS - TG: Sec4.L11.Exts (p119) AS - TG: Sec4.L13.Exts (p138)</p>
BENCHMARK	L.5.A.2.	<p>DNA: Students know reproduction is an essential characteristic for the continuation of every species. E/S</p> <p>Grades 3-5 AS - RB: (pp40-42) LCB - TG: Sec4.L15 (pp89-94)</p>
BENCHMARK	L.5.A.3.	<p>DNA: Students know that, while offspring resemble their parents and each other, they also exhibit differences in characteristics. E/S</p> <p>Grades 3-5 AS - TG: Sec4.L11.Exts (p119) AS - TG: Sec4.L13.Exts (p138)</p>
BENCHMARK	L.5.A.4.	<p>Predicting: Students know how to observe and describe variations among individuals within the human population. E/S</p> <p>Grades 3-5 AS - TG: Sec4.L11.Exts (p119)</p>

		AS - TG: Sec4.L13.Exts (p138)
BENCHMARK	L.5.A.5.	Predicting: Students know some animal behaviors are learned. E/S Grades 3-5 AS - RB: (pp16-19) AS - RB: (pp22-25) AS - RB: (pp40-42) AS - RB: (pp53-61) AS - TG: Sec4.L10.Exts (p110)
CONTENT STANDARD	NV.L.5.B.	Structure of Life (Life Science Unifying Concept B): Students understand that living things have specialized structures that perform a variety of life functions.
BENCHMARK	L.5.B.1.	Cells: Students know plants and animals have structures that enable them to grow, reproduce, and survive. E/S Grades 3-5 AS - RB: (pp06-08) AS - RB: (pp16-19) AS - TG: Sec4.L03-L06 (pp21-74) AS - TG: Sec4.L08 (pp87-96) AS - TG: Sec4.L13 (pp135-142) AS - TG: Sec4.L14 (pp143-156) AS - TG: Sec4.L15 (pp157-164) AS - TG: Sec4.L16.Exts (p167) EC - RB: (pp11-12) EC - RB: (pp47-49) LCB - TG: Sec4.App-B (pp101-110) LCB - TG: Sec4.L01-L11 (pp3-74) LCB - TG: Sec4.L13-L16 (pp81-96) LW - TG: Sec4.L14.Exts (p156) MD - RB: (pp07-09) So - TG: Sec4.L04.Exts (pp26-27) So - TG: Sec4.L08.Exts (pp61-62) So - TG: Sec4.L14.Exts (p98)
BENCHMARK	L.5.B.2.	Disease: Students know living things have predictable life cycles. E/S Grades 3-5 AS - RB: (pp06-08) AS - RB: (pp12-15) AS - RB: (pp35-37) AS - TG: Sec4.L04.Exts (pp41-42) AS - TG: Sec4.L07.Exts (pp79-80) E - RB: (pp31-34) E - TG: Sec4.L03.Exts (p29) E - TG: Sec4.L05 (pp53-60) E - TG: Sec4.L06 (pp61-74) LCB - TG: Sec4.App-A (pp97-100) LCB - TG: Sec4.App-B (pp101-110) LCB - TG: Sec4.L01-L09 (pp3-62) LCB - TG: Sec4.L11-L16 (pp69-96)

CONTENT STANDARD	NV.L.5.C.	Organisms and Their Environment (Life Science Unifying Concept C): Students understand that there is a variety of ecosystems on Earth and organisms interact within their ecosystems.
BENCHMARK	L.5.C.1.	Cycles: Students know the organization of simple food webs. E/S Grade 4 E - RB: (pp14-16) E - TG: Sec4.L07 (pp75-82)
BENCHMARK	L.5.C.2.	Cycles: Students know organisms interact with each other and with the non-living parts of their ecosystem. E/S Grades 3-5 AS - TG: Sec4.L01-L17 (pp3-172) E - RB: (pp17-19) E - RB: (pp31-34) LCB - TG: Sec4.L10 (pp63-68)
BENCHMARK	L.5.C.3.	Ecosystems: Students know changes to an environment can be beneficial or detrimental to different organisms. E/S Grade 4 E - RB: (pp20-23) E - RB: (pp26-27) E - TG: Sec4.L01-L07 (pp3-82) E - TG: Sec4.L12 (pp117-124) E - TG: Sec4.L17 (pp169-171)
BENCHMARK	L.5.C.4.	Ecosystems: Students know all organisms, including humans, can cause changes in their environments. E/S Grades 3-5 AS - RB: (pp09-11) E - RB: (pp20-23) E - RB: (pp26-27) E - RB: (pp31-37) E - RB: (pp40-42) E - RB: (pp60-61) E - TG: Sec4.L01-L12 (pp3-124) E - TG: Sec4.L17 (pp169-171) LW - TG: Sec4.L14 (pp153-162)
BENCHMARK	L.5.C.5.	Ecosystems: Students know plants and animals have adaptations allowing them to survive in specific ecosystems. E/S Grades 3-5 AS - RB: (pp06-11) AS - RB: (pp16-19) AS - RB: (pp30-32) AS - RB: (pp40-49) AS - TG: Sec4.L01-L04 (pp3-48) AS - TG: Sec4.L06-L16 (pp65-168) E - RB: (pp11-13) EC - RB: (pp47-49) LCB - TG: Sec4.L01-L16 (pp3-96) MD - RB: (pp14-17)

CONTENT STANDARD	NV.L.5.D.	Diversity of Life (Life Science Unifying Concept D): Students understand that living things can be classified according to physical characteristics, behaviors, and habitats.
BENCHMARK	L.5.D.1.	Evolution: Students know animals and plants can be classified according to their observable characteristics. E/S Grades 3-5 AS - RB: (pp26-29) AS - TG: Sec4.L01 (pp3-10) AS - TG: Sec4.L02 (pp11-20) AS - TG: Sec4.L03 (pp21-36) AS - TG: Sec4.L17 (pp169-172) LCB - TG: Sec4.L02 (pp11-18) LCB - TG: Sec4.L10 (pp63-68) LCB - TG: Sec4.L14 (pp85-88) LCB - TG: Sec4.L15 (pp89-94)
BENCHMARK	L.5.D.3.	Natural Selection: Students know differences among individuals within a species give them advantages and/or disadvantages in surviving and reproducing. E/S Grades 3-5 AS - RB: (pp45-49)
CONTENT STANDARD	NV.E.5.A.	Atmospheric Processes and the Water Cycle (Earth and Space Science Unifying Concept A): Students understand the water cycle's relationship to weather.
BENCHMARK	E.5.A.2.	Sun's Energy: Students know the processes of the water cycle, including the role of the Sun. E/S Grades 3-5 CT - TG: Sec4.L05.Exts (p50) LW - TG: Sec4.L01 (pp3-10) LW - TG: Sec4.L02 (pp11-28) LW - TG: Sec4.L03 (pp29-36) LW - TG: Sec4.L06 (pp63-74) LW - TG: Sec4.L09.Exts (p103) LW - TG: Sec4.L14.Exts (p156) LW - TG: Sec4.L15.Exts (p167)
BENCHMARK	E.5.A.3.	Sun's Energy: Students know most of Earth's surface is covered with fresh or salt water. W/L Grades 3-5 LW - RB: (pp10-11) LW - RB: (pp21-25) LW - TG: Sec4.L01 (pp3-10) LW - TG: Sec4.L02 (pp11-28)
BENCHMARK	E.5.A.4.	Weather: Students know the role of water in many phenomena related to weather (e.g., thunderstorms, snowstorms, flooding, drought). E/S Grades 3-5 CT - TG: Sec4.L05.Exts (p50) LW - RB: (pp21-25) LW - TG: Sec4.L01-L03 (pp3-36) LW - TG: Sec4.L06 (pp63-74)

BENCHMARK	E.5.A.5.	Weather: Students know air is a substance that surrounds us, takes up space, and moves around us as wind. I/S Grade 4 CT - TG: Sec4.L10.Exts (p97)
CONTENT STANDARD	NV.E.5.C.	Earth's Composition and Structure (Earth and Space Science Unifying Concept C): Students understand that features on the Earth's surface are constantly changed by a combination of slow and rapid processes.
BENCHMARK	E.5.C.2.	Geologic Processes: Students know water, wind, and ice constantly change the Earth's land surface by eroding rock and soil in some places and depositing them in other areas. E/S Grades 3-5 LW - RB: (pp36-38) LW - RB: (pp50-52) LW - TG: Sec4.L03-L07 (pp26-84) LW - TG: Sec4.L09.Exts (p103) LW - TG: Sec4.L10-L16 (pp109-182)
BENCHMARK	E.5.C.3.	Geologic Processes: Students know landforms may result from slow processes (e.g. erosion and deposition) and fast processes (e.g. volcanoes, earthquakes, landslides, flood, and human activity). E/S Grades 3-5 LW - RB: (pp10-11) LW - RB: (pp12-14) LW - RB: (pp36-38)
BENCHMARK	E.5.C.4.	Earth's Composition and Resources: Students know rock is composed of different combinations of minerals. E/S Grades 3-5 LW - RB: (pp15-18) RM - TG: Sec4.L01 (pp3-12) RM - TG: Sec4.L02 (pp13-18) RM - TG: Sec4.L03.Exts (p22) RM - TG: Sec4.L04-L17 (pp26-128)
BENCHMARK	E.5.C.5.	Earth's Composition and Resources: Students know soil varies from place to place and has both biological and mineral components. E/S Grades 3-5 LW - TG: Sec4.L05 (pp51-62) LW - TG: Sec4.L06 (pp63-74) LW - TG: Sec4.L14.Exts (p156)