

1st Nine Weeks
MATTER AND ENERGY
(August 16 – October 14)

<p><u>Skills (7 days)Intro to Science</u> 5.1A+B Science Safety 5.2A-G Investigation and reasoning/Questioning Strategies 5.3A-C Investigation and reasoning/Critical Thinking 5.4AInvestigation and reasoning/Tools</p>	<p><u>Resource Folder</u> <u>Digital Resource Folder</u></p>
<p><u>5.5A Readiness (13 days)</u> Classify matter based on measurable, testable, and observable physical properties, including mass, magnetism, physical state (solid, liquid, and gas), relative density (sinking and floating using water as a reference point), solubility in water, and the ability to conduct or insulate thermal energy or electric energy</p>	<p><u>Resource Folder</u> <u>Digital Resource Folder</u> Key Lesson: Properties of Matter Lab from Stemscoptes</p>
<p><u>5.5B Supporting (4 days)</u> Demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand and sand and water</p>	<p><u>Resource Folder</u> <u>Digital Resource Folder</u></p>
<p><u>5.5C Supporting (4 days)</u> Identify changes that can occur in the physical properties of the ingredients of solutions such as dissolving salt in water or adding lemon juice to water</p>	<p><u>Resource Folder</u></p>
<p><u>5.6A Readiness (5 days)</u> Explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy (MELTS)</p>	<p><u>Resource Folder</u> <u>Digital Resource Folder</u> Key Lesson: Uses of Energy Matrix</p>
<p><u>5.6B Readiness (5 days)</u> Demonstrate that the flow of electricity in closed circuits can produce light, heat, and sound</p>	<p><u>Resource Folder</u> <u>Digital Resource Folder</u> Key Lessons: Intro to Circuit Lab Series vs Parallel Circuits Observation Stations</p>

Process Skills Embedded in Content Lessons Term 1:

- 5.2A** describe, plan, and implement simple experimental investigations testing one variable
- 5.2B** ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology
- 5.2C** collect and record information using detailed observations and accurate measuring
- 5.2D** analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence
- 5.2E** demonstrate that repeated investigations may increase the reliability of results
- 5.2F** communicate valid conclusions in both written and verbal forms
- 5.2G** construct appropriate simple graphs, tables, maps, and charts using technology, including computers to organize, examine, and evaluate information
- 5.3A** Analyze, evaluate, and critique scientific explanations by using evidence and experimental and observational testing.

2nd Nine Weeks
EARTH AND SPACE
(October 17 – December 21)

<p><u>5.6C Readiness (5 days)</u> Demonstrate that light travels in a straight line until it strikes an object and is reflected or travels through one medium to another and is refracted</p>	<p>Resource Folder Digital Resource Folder Key Lesson:Refraction Observation Stations/Reflection Lab Demonstrations</p>
<p><u>5.8B Supporting (5days)</u> Explain how the Sun and the ocean interact in the water cycle.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.8A Supporting (5days)</u> Differentiate between weather and climate.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.7B Readiness (8days)</u> Recognize how landforms such as deltas, canyons, and sand dunes are the result of changes to Earth’s surface by wind, water, and ice.</p>	<p>Key Lesson: Salt Rock Lab/Demo WED Lab</p>
<p><u>5.7A Readiness (8days)</u> Explore the processes that led to the formation of sedimentary rocks and fossil fuels.</p>	<p>Key Lesson: Crayon Rock Lab & Cementation Model</p>
<p><u>5.9D Supporting (3days)</u> Identify fossils as evidence of past living organisms and the nature of the environments at the time using models.</p>	
<p><u>5.8D Supporting (5days)</u> Identify and compare the physical characteristics of the Sun, Earth, and Moon.</p>	<p>Resource Folder Digital Resource Folder</p>

Process Skills Embedded in Content Lessons Term 2:

- 5.2A** describe, plan, and implement simple experimental investigations testing one variable
- 5.2B** ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology
- 5.2C** collect and record information using detailed observations and accurate measuring
- 5.2D** analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence
- 5.2E** demonstrate that repeated investigations may increase the reliability of results
- 5.2F** communicate valid conclusions in both written and verbal forms
- 5.2G** construct appropriate simple graphs, tables, maps, and charts using technology, including computers to organize, examine, and evaluate information

3rd Nine Weeks
LIFE SCIENCE &
EARTH AND SPACE
(January 5 – March 10)
***CBA week of 2/6-2/10**

<p><u>5.8D Supporting (5days continued-if needed)</u> Identify and compare the physical characteristics of the Sun, Earth, and Moon.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.8C Readiness (7days)</u> Demonstrate the Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky.</p>	<p>Resource Folder Digital Resource Folder Key Lesson: Shadow Lesson Digital Inquiry: Shadows</p>
<p><u>5.10B Readiness (5days)</u> Differentiate between inherited traits of plants and animals such as spines on a cactus or shape of a beak and learned behaviors such as an animal learning tricks or a child riding a bike.</p>	<p>Resource Folder Digital Resource Folder Key Lesson: Plant Trait Lab Inherited Traits/Behaviors Observation Stations</p>
<p><u>5.10A Readiness (9-11days)</u> Compare the structure and functions of different species that help them live and survive in a specific environment such as hooves on prairie animals or webbed feet in aquatic animals.</p> <p>** Week of February 7th - Science CBA**</p>	<p>Resource Folder Digital Resource Folder Key Lesson: Squid Dissection Lab Bird Beak Lab Animal Trunk Adaptation Observation Stations</p>
<p><u>5.9A Readiness (9days)</u> Observe the way organisms live and survive in their ecosystem by interacting with the living and nonliving components</p>	<p>Resource Folder Digital Resource Folder Key Lesson: Eco-Column Observation and Lab</p>
<p><u>5.9B Readiness (5days)</u> Describe the flow of energy within a food web, including the roles of the Sun, producers, consumers, and decomposers.</p>	<p>Resource Folder Digital Resource FolderKey Lesson: Food Web Lockbox Challenge Food Chain Card Activity ADD Food Chain Group Activity</p>

Process Skills Embedded in Content Lessons Term 3:

5.2A describe, plan, and implement simple experimental investigations testing one variable

5.2B ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology

5.2C collect and record information using detailed observations and accurate measuring

5.2D analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence

5.2E demonstrate that repeated investigations may increase the reliability of results

5.2F communicate valid conclusions in both written and verbal forms

5.2G construct appropriate simple graphs, tables, maps, and charts using technology, including computers to organize, examine, and evaluate information

**4th Nine Weeks
LIFE SCIENCE
(March 20 – May 25)**

<p><u>5.9C Supporting (5days)</u> Predict the effects of changes in ecosystems caused by living organisms, including humans, such as the overpopulation of grazers or the building of highways.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.6D Supporting (5days)</u> Design a simple experimental investigation that tests the effect of force on an object.</p>	
<p><u>Countdown to STAAR (week 1)</u> TEKS covered will be data driven.</p> <p><u>Countdown to STAAR (week 2)</u> TEKS covered will be data driven.</p> <p><u>Countdown to STAAR (week 3)</u> TEKS covered will be data driven.</p> <p>** Week of April 3rd-April 7th - Science Benchmark**</p> <p><u>Countdown to STAAR (week 4)</u> TEKS covered will be data driven.</p> <p><u>Countdown to STAAR (week 5)</u> TEKS covered will be data driven.</p>	

April 25-May 5th- Science STAAR Test

Process Skills Embedded in Content Lessons Term 4:

- 5.2A** describe, plan, and implement simple experimental investigations testing one variable
- 5.2B** ask well-defined questions, formulate testable hypotheses, and select and use appropriate equipment and technology
- 5.2C** collect and record information using detailed observations and accurate measuring
- 5.2D** analyze and interpret information to construct reasonable explanations from direct (observable) and indirect (inferred) evidence
- 5.2E** demonstrate that repeated investigations may increase the reliability of results
- 5.2F** communicate valid conclusions in both written and verbal forms
- 5.2G** construct appropriate simple graphs, tables, maps, and charts using technology, including computers to organize, examine, and evaluate information