

1st Nine Weeks
MATTER AND ENERGY
(August 15 – October 10)

<p><u>Skills (4 days)Intro to Science</u> week of August 15 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>Resource Folder Digital Resource Folder</p> <p>Changed days from 7 to 4 dues to change in STAAR test date.</p>
<p><u>5.5A Readiness (14 days)</u> weeks of August 21, August 28, and Sept. 4 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 Review 3.5C- heat causes changes</p>	<p>Resource Folder Digital Resource Folder</p> <p>Key Lesson: Properties of Matter Lab from Stemscoptes</p>
<p><u>5.5B Supporting (5 days)</u> week of Sept. 11 Demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand and sand and water</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.5C Supporting (4 days)</u> week of Sept. 18 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>Resource Folder</p>
<p><u>5.6A Readiness (5 days)</u> week of Sept. 25 Explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy (MELTS)</p>	<p>Resource Folder Digital Resource Folder Key Lesson: Uses of Energy Matrix</p>
<p><u>5.6B Readiness (5 days)</u> week of Oct. 2 Demonstrate that the flow of electricity in closed circuits can produce light, heat, and sound</p>	<p>Resource Folder</p> <p>Digital Resource Folder Key Lessons: Intro to Circuit Lab Series vs Parallel Circuits Observation Stations</p>
<p><u>Engineering (5 days)</u> week of Oct. 9 The one engineering lesson is the application of student learning of concept taught the first nine weeks. This is in preparation of new standards for the school year 2024-25. As students learn the engineering design process, the lessons should take fewer days.</p>	<p>Ideas:</p> <ul style="list-style-type: none"> ● Foil Boats ● Make a Switch

Process Skills Embedded in Content Lessons 1st Nine Weeks:

- 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.
- 5.3B** Draw or develop a model that represents how something that cannot be seen such as the Sun, Earth, Moon system and the formation of sedimentary rock works or looks

****5.2D- half of the dual coded questions come from this process skill**

2nd Nine Weeks
ENERGY, EARTH AND SPACE
(October 16 – December 21)

<p><u>5.6C Readiness (5 days)</u> week of Oct. 16 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>5.6D Supporting (5 days)</u> week of Oct. 23 Design a simple experimental investigation that tests the effect of force on an object.</p>	<p>This was moved from the end of the year. Investigating is what science is about. This TEKS will also help review 3.6B</p>
<p><u>5.8B Supporting (5 days)</u> week of Oct. 30 Explain how the Sun and the ocean interact in the water cycle. Be sure to review 4.8B- the Sun's role.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.8A Supporting (5 days)</u> week of Nov. 6 Differentiate between weather and climate. Be sure to review 4.8A- describing and forecasting weather.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.7B Readiness (8 days)</u> week of Nov. 13 and Nov. 27 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>Resource Folder Digital Resource Folder Key Lesson: Salt Rock Lab/Demo WED Lab</p>
<p><u>5.7A Readiness (8 days)</u> week of Nov. 27 and Dec. 4 Explore the processes that led to the formation of sedimentary rocks and fossil fuels. Be sure to review 4.8A- soils</p>	<p>Resource Folder Digital Resource Folder Key Lesson: Crayon Rock Lab & Cementation Model</p>
<p><u>5.9D Supporting (4 days)</u> week of Dec. 11 Identify fossils as evidence of past living organisms and the nature of the environments at the time using models.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>Engineering (5 days)</u> week of Dec. 18 The one engineering lesson is the application of student learning of concepts taught the first nine weeks. This is in preparation of new standards for the school year 2024-25. As students learn the engineering design process, the lessons should take fewer days.</p>	<p>Ideas: Wind Erosion Lightning Engineer</p>

Process Skills Embedded in Content Lessons 2nd Nine Weeks:

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.

5.3B Draw or develop a model that represents how something that cannot be seen such as the Sun, Earth, Moon system and the formation of sedimentary rock works or looks

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**EARTH AND SPACE &
LIFE SCIENCE
(January 8 – March 8)**

<p><u>5.8C Readiness (9 days)</u> week of Jan. 8 and Jan. 15 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. <i>Be sure to review 4.8C</i></p>	<p>Resource Folder Digital Resource Folder Key Lesson: Shadow Lesson Digital Inquiry: Shadows</p>
<p><u>5.8D Supporting (3 days)</u> week of Jan. 22 Identify and compare the physical characteristics of the Sun, Earth, and Moon.</p>	<p>Resource Folder Digital Resource Folder</p>
<p><u>5.10B Readiness (5 days)</u> week of Jan. 29 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. <i>NOTE: A review of 3.10B (life cycles) will be needed in the upcoming weeks.</i></p>	<p>Resource Folder Digital Resource Folder Key Lesson: Plant Trait Lab Inherited Traits/Behaviors Observation Stations</p>
<p><u>5.10A Readiness (5 days)</u> week of Feb. 5 and Feb. 12 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>Resource Folder Digital Resource Folder Key Lesson: Squid Dissection Lab Bird Beak Lab Animal Trunk Adaptation Observation Stations</p>
<p><u>5.9A Readiness (5 days)</u> week of Feb. 19 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 (5 days)</u> week of Feb. 26 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 Folder Key Lesson: Food Web Lockbox Challenge Food Chain Card Activity ADD Food Chain Group Activity</p>
<p><u>5.9C Supporting (5 days)</u> week of March 4 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>

Process Skills Embedded in Content Lessons 3rd Nine Weeks:

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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

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5.3A Analyze, evaluate, and critique scientific explanations by using evidence and experimental and observational testing.

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**4th Nine Weeks
Review and Solidfy
(March 18 - May 26)**

<p>Depending on when the STAAR Test is given, there will be 4 or 5 weeks of review.</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><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>	
<p><u>The last few weeks:</u></p> <p><u>Engineering</u> The one engineering lesson is the application of student learning of concept taught the first nine weeks. This is in preparation of new standards for the school year 2024-25. As students learn the engineering design process, the lessons should take fewer days.</p> <p><u>Solidfying 5th Grade Concepts</u></p>	<p>Ideas:</p> <ul style="list-style-type: none"> ● Design a Habitat ● Water Filtering System ● Sundial ● Model of Earth, Sun, Moon System

Reading STAAR- ?
Science STAAR- ?
Math- STAAR ?

Process Skills Embedded in Content Lessons 4th Nine Weeks:

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.

5.3B Draw or develop a model that represents how something that cannot be seen such as the Sun, Earth, Moon system and the formation of sedimentary rock works or looks

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