



1 st Quarter (44 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Aug 11 -14	Welcome to school	TW establish class routines and procedures	N/A
2 nd : Aug 17-21	Properties of Matter	TSW: Compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy. Illustrate how matter is made up of particles that are too small to be seen such as air in a balloon	TEKS 5.6A, 5.6D
3 rd : Aug 31- Sep 4	Properties of Matter	TSW: Compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy. Illustrate how matter is made up of particles that are too small to be seen such as air in a balloon	TEKS 5.6A, 5.6D
4 th : Sep 8-12	Properties of Mixtures and Solutions	TSW: Demonstrate and explain that some mixtures maintain physical properties of their substances such as iron filings and sand or sand and water. Compare the properties of substances before and after they are combined into a solution and demonstrate that matter is conserved in solutions.	TEKS 5.6B, 5.6C
5 th : Sept 14-18	Properties of Mixtures and Solutions	TSW: Demonstrate and explain that some mixtures maintain physical properties of their substances such as iron filings and sand or sand and water. Compare the properties of substances before and after they are combined into a solution and demonstrate that matter is conserved in solutions.	TEKS 5.6B, 5.6C
6 th : Sept 21-25	Equal and Unequal Forces	TSW: Investigate and explain how equal and unequal forces acting on an object cause patterns of motion and transfer of energy. Design a simple experimental investigation that tests the effect of force on an object in a system such as a car on a ramp or a balloon rocket on a string	TEKS 5.7A, 5.7B
7 th : Sept 28-Oct 2	Equal and Unequal Forces	TSW: Investigate and explain how equal and unequal forces acting on an object cause patterns of motion and transfer of energy.	TEKS 5.7A, 5.7B



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		Design a simple experimental investigation that tests the effect of force on an object in a system such as a car on a ramp or a balloon rocket on a string	
8 th : Oct 5-9	Users of Energy	TSW: Investigate and describe the transformation of energy in systems such as energy in a flashlight battery that changes from chemical energy to electrical energy to light energy	TEKS 5.8A
9 th : Oct 13-17	Circuits	TSW: Demonstrate that electrical energy in complete circuits can be transformed into motion, light, sound, or thermal energy and identify the requirements for a functioning electrical circuit	TEKS 5.8B

2 nd Quarter (43 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Oct 19-23	Circuits	TSW: Demonstrate that electrical energy in complete circuits can be transformed into motion, light, sound, or thermal energy and identify the requirements for a functioning electrical circuit	TEKS 5.8B
2 ⁿ : Oct 26-30	Review	Review	Review
3 rd : Nov 2-6	Behavior of Light	TSW: Demonstrate and explain how light travels in a straight line and can be reflected, refracted, or absorbed	TEKS 5.8C
4 th : Nov 09-13	Behavior of Light	TSW: Demonstrate and explain how light travels in a straight line and can be reflected, refracted, or absorbed	TEKS 5.8C
5 th : Nov 16-20	Earth's Rotation	TSW: The student is expected to demonstrate that Earth rotates on its axis once approximately every 24 hours and explain how that causes the day/night cycle and the appearance of the Sun moving across the sky, resulting in changes in shadow positions and shapes.	TEKS 5.9
6 th : Nov 30-Dec 4	Earth's Rotation	TSW: The student is expected to demonstrate that Earth rotates on its axis once approximately every 24 hours	TEKS 5.9



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		and explain how that causes the day/night cycle and the appearance of the Sun moving across the sky, resulting in changes in shadow positions and shapes.	
7 th : Dec 7-11	Weather and the Water Cycle Review & Assessment Middle of Year Benchmark	TSW: Explain how the Sun and the ocean interact in the water cycle and affect weather	TEKS 5.10A
8 th : Dec 14-18	Weather and the Water Cycle	TSW:Explain how the Sun and the ocean interact in the water cycle and affect weather	TEKS 5.10A

3 rd Quarter (43 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Jan 5-8	Formation of Sedimentary Rock and Fossil Fuels	TSW: model and describe the processes that led to the formation of sedimentary rocks and fossil fuels	TEKS 5.10B
2 nd : Jan 11-15	Changing Earth's Landforms	TSW: 5.10C model and identify how changes to Earth's surface by wind, water, or ice result in the formation of landforms, including deltas, canyons, and sand dunes	TEKS 5.10C
3 rd : Jan 19-22	Conservation and Recycling	TSW: The student is expected to design and explain solutions such as conservation, recycling, or proper disposal to minimize environmental impact of the use of natural resources.	TEKS 5.11
4 th : Feb 1-5	Interactions in	TSW:	TEKS 5.12A

3rd Quarter (43 Days)

<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
	Ecosystems	observe and describe how a variety of organisms survive by interacting with biotic and abiotic factors in a healthy ecosystem	
5 th : Feb 8-12	Interactions in Ecosystems	TSW: observe and describe how a variety of organisms survive by interacting with biotic and abiotic factors in a healthy ecosystem	TEKS 5.12A
6 th : Feb 16-19	Environmental Changes	TSW: - predict how changes in the ecosystem affect the cycling of matter and flow of energy in a food web - describe a healthy ecosystem and how human activities can be beneficial or harmful to an ecosystem	TEKS 5.12BC
7 th : Feb 22-26	Environmental Changes	TSW: - predict how changes in the ecosystem affect the cycling of matter and flow of energy in a food web - describe a healthy ecosystem and how human activities can be beneficial or harmful to an ecosystem	TEKS 5.12BC
Spring Break March 10-14			

4th Quarter (46 Days)

<u>Resources:</u> StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 th : Mar 15-19	Interactions in Ecosystems	TSW: observe and describe how a variety of organisms survive by interacting with biotic and abiotic factors in a healthy ecosystem	TEKS 5.12A



4 th Quarter (46 Days)			
Resources: StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
2 th : Mar 22-26	Environmental Changes	TSW: ● predict how changes in the ecosystem affect the cycling of matter and flow of energy in a food web ● describe a healthy ecosystem and how human activities can be beneficial or harmful to an ecosystem	TEKS 5.12BC
3 th : Mar 29-Apr 2	Structures and Functions of Organisms	● TSW: ● analyze the structures and functions of different species to identify how organisms survive in the same environment	TEKS 5.13A
4 th : Apr 5-9	Behavioral Traits	TSW: 5.13B explains how instinctual behavioral traits such as turtle hatchlings returning to the sea and learned behavioral traits such as orcas hunting in packs increase chances of survival.	TEKS 5.13B
5 th : Apr 12-16	Review	Review	Review
Ramadan Break Mar 24 - 31			
6 th : Apr 19-23	Review and STEM Festival	TSW will engage in STEM based activities and projects to review and reinforce Gr 5 TEKS	Review
7 th : Apr 26-30	Review and Stem	TSW will engage in STEM based activities and projects to review and reinforce Gr 5 TEKS	Review
8 th : May 3-7	Stem and Map	TSW will engage in STEM based activities and projects to review and reinforce Gr 5 TEKS	Review
9 th : May 10-14	Stem and Map	TSW will engage in STEM based activities and projects to review and reinforce Gr 5 TEKS	Review
10 th : May 19-21	Assessments and graduation	TSW will engage in STEM based activities and projects to review and reinforce Gr 5 TEKS	Review
11 th : May 24-28	Graduation	TSW will engage in STEM based activities and projects to review and reinforce Gr 5 TEKS	Review



4th Quarter (46 Days)

Resources: StemScopes			
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