



1 st Quarter (44 Days)			
<i>Resources:</i> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Aug 8-9 (2 days)	Welcome to school	TW establish class routines and procedures	N/A
2 nd : Aug 12-16 (5 days)	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 19-23 (3 days)	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 : Aug 26- Aug 30 (5 days)	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 2-6 (4 days)	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 9-13 (5 days)	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



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7 th : Sept 16-20 (5 days)	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
8 th : Sept 23-27 (4 days)	Users of Energy Friday: Professional Development	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 : Sept 30 Oct 4 (5 days)	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
10 th : Oct 7-11 (5 days)	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)			
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Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Oct 14-18 (5 days)	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 : Oct 21-25 (5 days)	Behavior of Light	TSW: Demonstrate and explain how light travels in a straight line and can be reflected, refracted, or absorbed	TEKS 5.8C
3 rd : Oct 28- Nov 1 (4 days)	Friday: Parent/Teacher Conferences	TSW:	TEKS 5.8C



2 nd Quarter (43 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
	Behavior of Light	Demonstrate and explain how light travels in a straight line and can be reflected, refracted, or absorbed	
4th: Nov 4-8 (5 days)	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
5th: Nov 11-15 (5 days)	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
6th : Nov 18-22 (5 days)	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
7th: Nov 25-29	Thanksgiving Holiday		
8th: Dec 2-6 (5 days)	Weather and the Water Cycle	TSW: Explain how the Sun and the ocean interact in the water cycle and affect weather	TEKS 5.10A
9th: Dec 9-13 (5 days)	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
10th : Dec 16-20 (5 days)	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
Winter Break			



3 rd Quarter (44 Days)			
Resources: STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1st : Jan 6-10 (5 days)	Monday: Professional Development 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
2nd : Jan 13-17 (5 days)	Changing Earth's Landforms	TSW: 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
3rd : Jan 20-24 (4 days)	Monday: MLK Holiday 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
4th : Jan 27-31 (5 days)	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
5th : Feb 3-7 (5 days)	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
6th : Feb 10-14 (5 days)	Friday: District Professional Development 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
7th : Feb 17-21 (4 days)	Environmental Changes	TSW: <ul style="list-style-type: none"> • 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 rd Quarter (44 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
8 th : Feb 24-28 (5 days)	Environmental Changes	TSW: <ul style="list-style-type: none"> 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
9 th : Mar 3-7 (5 days)	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
Spring Break March 10-14			

4 th Quarter (46 Days)			
<u>Resources:</u> StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1st: Mar 17- 21 (5 days)	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
Ramadan Break Mar 24 - 31			
2nd: Apr 1-4 (4 days)	Behavioral Traits	TSW: 5.13B explain 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
3rd: April 7-11 (5 days)	Behavioral Traits	TSW: 5.13B explain 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
4th: April 14- 18	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW



4 th Quarter (46 Days)			
<u>Resources:</u> StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
(5 days)			
5th: Apr 21-25 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
6th: Apr 28 -May 2 (5 days)	STAAR Testing	STAAR REVIEW	STAAR REVIEW
7th: May 5- 9 (5 days)	STAAR Testing	STAAR TESTING	STAAR TESTING
8th: May 12- 16 (5 days)	MAP Review & Assessment	Review & Assessment Project based learning	Review
9th: May 19- 23 (5 days)	Project based learning	Project based learning	Review
10th May 26-28 (3 days)	Graduation ceremony	Project based learning	Review