



1 st Quarter (44 Days)			
Resources: STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Aug 11-14 (4 days)	Welcome to School	TSW establishes class routines and procedures. Icebreakers.	
2 nd : Aug 17-22 (5 days)	Classifying Matter	TSW explain by modeling how matter is classified as elements, compounds, homogeneous mixtures, or heterogeneous mixtures	8.6A
3 rd : Aug 24-28 (5 days)	Properties of Water	TSW describe the properties of cohesion, adhesion, and surface tension in water and relate to observable phenomena such as the formation of droplets, transport in plants, and insects walking on water	8.6C
4 th : Aug 31-Sep 4 (5 days)	Properties of Acids and Bases	TSW compare and contrast the properties of acids and bases, including pH relative to water	8.6D
5 th : Sept 8-12 (4 days)	Monday: Labor Day Holiday Conservation of Mass	TSW use the periodic table to identify the atoms involved in chemical reactions TSW investigate how mass is conserved in chemical reactions and relate conservation of mass to the rearrangement of atoms using chemical equations, including photosynthesis	8.6B 8.6E
6 th : Sept 14-18 (5 days)	Conservation of Mass	TSW use the periodic table to identify the atoms involved in chemical reactions TSW investigate how mass is conserved in chemical reactions and relate conservation of mass to the rearrangement of atoms using chemical equations, including photosynthesis	8.6B 8.6E
7 th : Sept 21-25 (5 days)	Newton's Second Law of Motion	TSW calculate and analyze how the acceleration of an object is dependent upon the net force acting on the object and the mass of the object using Newton's Second Law of Motion	8.7A
8 th : Sept 28- Oct 2 (5 days)	Newton's Three Laws of Motion	TSW investigate and describe how Newton's three laws of motion act simultaneously within systems such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches	8.7B
9 th : Oct 5-8 (4 days)	Friday: Professional Development Wave Characteristics	TSW compare the characteristics of amplitude, frequency, and wavelength in transverse waves, including the electromagnetic spectrum	8.8A



2 nd Quarter (43 Days)			
<i>Resources:</i> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Oct 14-16 (3 days)	Electromagnetic Wave Uses	TSW explain the use of electromagnetic waves in applications such as radiation therapy, wireless technologies, fiber optics, microwaves, ultraviolet sterilization, astronomical observations, and X-rays	8.8B
2 nd : Oct 19-23 (5 days)	Electromagnetic Wave Uses	TSW explain the use of electromagnetic waves in applications such as radiation therapy, wireless technologies, fiber optics, microwaves, ultraviolet sterilization, astronomical observations, and X-rays	8.8B
3 rd : Oct 26-30 (4 days)	Friday: Parent/Teacher Conferences Life Cycles of Stars	TSW describe the life cycle of stars and compare and classify stars using the Hertzsprung-Russell diagram	8.9A
4 th : Nov 2-6 (5 days)	Life Cycles of Stars	TSW describe the life cycle of stars and compare and classify stars using the Hertzsprung-Russell diagram	8.9A
5 th : Nov 9-13 (5 days)	Galaxy Types and Our Solar System	TSW categorize galaxies as spiral, elliptical, and irregular and locate Earth's solar system within the Milky Way galaxy	8.9B
6 th : Nov 16-20 (5 days)	Origins of the Universe	TSW research and analyze scientific data used as evidence to develop scientific theories that describe the origin of the universe	8.9C
7 th : Nov 24-28	Thanksgiving Holiday		
8 th : Nov30- Dec 4 (5 days)	Influences of Weather and Climate	TSW describe how energy from the Sun, hydrosphere, and atmosphere interact and influence weather and climate TSW identify global patterns of atmospheric movement and how they influence local weather	8.10A 8.10B
9 th : Dec 7-11 (5 days)	Influences of Weather and Climate	TSW describe how energy from the Sun, hydrosphere, and atmosphere interact and influence weather and climate TSW identify global patterns of atmospheric movement and how they influence local weather	8.10A 8.10B
10th : Dec14-18 (5 days)	Review & Assessment	Review & Assessment	Review & Assessment
Dec 21- Jan 1	Winter Break		

3 rd Quarter (44 Days)			
<i>Resources:</i> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Jan 5-8	Monday: District Professional Development	TSW describe the interactions between ocean currents and air masses	8.10C

3rd Quarter (44 Days)

Resources: STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
(5 days)	Ocean Currents and Air Masses	that produce tropical cyclones, including typhoons and hurricanes	
2 nd : Jan 11-15 (5 days)	Ocean Currents and Air Masses	TSW describe the interactions between ocean currents and air masses that produce tropical cyclones, including typhoons and hurricanes	8.10C
3 rd : Jan 19-22 (4 days)	Monday: MLK Holiday Nature's Impact on Climate Change	TSW use scientific evidence to describe how natural events, including volcanic eruptions, meteor impacts, abrupt changes in ocean currents, and the release and absorption of greenhouse gases influence climate TSW describe the carbon cycle	8.11A 8.11C
4 th : Jan 25-29 (5 days)	1/24: 100 Days of School Human Impact on Climate Change	TSW use scientific evidence to describe how human activities, including the release of greenhouse gases, deforestation, and urbanization, can influence climate TSW describe the carbon cycle	8.11B 8.11C
5 th : Feb 1-5 (5 days)	Effects on Food Webs	TSW explain how disruptions such as population changes, natural disasters, and human intervention impact the transfer of energy in food webs in ecosystems	8.12A
6 th : Feb 8-12 (5 days)	Ecological Succession	TSW describe how primary and secondary ecological succession affect populations and species diversity after ecosystems are disrupted by natural events or human activity	8.12B
7 th : Feb 16-19 (4 days)	Monday: Professional Development Biodiversity	TSW describe how biodiversity contributes to the stability and sustainability of an ecosystem and the health of the organisms within the ecosystem	8.12C
8 th : Feb 22-26 (5 days)	Cell Organelles	TSW identify the function of the cell membrane, cell wall, nucleus, ribosomes, cytoplasm, mitochondria, chloroplasts, and vacuoles in plant or animal cells	8.13A
9 th : Mar 1-12	Spring Break March 1-5		
	Ramadan Break March 8-12		

4th Quarter (46 Days)

Resources: StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Mar15-19 (5 days)	Genes and Traits	TSW describe the function of genes within chromosomes in determining inherited traits of offspring	8.13B
2 nd : Mar22-26	Genes and Traits	TSW describe the function of genes within chromosomes in determining	8.13B



4 th Quarter (46 Days)			
Resources: StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
(5 days)		inherited traits of offspring	
3rd: Mar 29- Apr 2 (5 days)	Variations to Adaptations	TSW describe how variations of traits within a population lead to structural, behavioral, and physiological adaptations that influence the likelihood of survival and reproductive success of a species over generations	8.13C
4th: April 5-9 (5 days)	Variations to Adaptations	TSW describe how variations of traits within a population lead to structural, behavioral, and physiological adaptations that influence the likelihood of survival and reproductive success of a species over generations	8.13C
5th: April 12-16 (5 Days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
6th: Apr 19-23 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
7th: Apr 26-30 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
8th: May 3-8 (5 days)	STEM	TSW Will work on STEM Project	STEM
9th: May 10-14 (5 days)	REVIEW AND ASSESSMENT	Review and Assessment	Review
10th: May 19-21 (3 days)	REVIEW AND ASSESSMENT	Review and Assessment	Review
11th: May 24-27 (3 days)	Award Ceremonies / Graduation Ceremonies	Graduation Prep	NA