



1 st Quarter (44 Days)			
Resources: 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)	Classifying Matter	TSW explain by modeling how matter is classified as elements, compounds, homogeneous mixtures, or heterogeneous mixtures	8.6A
3 rd : Aug 19-23 (3 days)	Classifying Matter	TSW explain by modeling how matter is classified as elements, compounds, homogeneous mixtures, or heterogeneous mixtures	8.6A
4 th : Aug 26- Aug 30 (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
5 th : Sept 2-6 (4 days)	Monday: Labor Day Holiday Properties of Acids and Bases	TSW compare and contrast the properties of acids and bases, including pH relative to water	8.6D
6 th : Sept 9-13 (5 days)	Properties of Acids and Bases	TSW compare and contrast the properties of acids and bases, including pH relative to water	8.6D
7 th : Sept 16-20 (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
8 th : Sept 23-27 (4 days)	Conservation of Mass Friday: Professional Development	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
9 th : Sept 30 Oct 4 (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
10 th : Oct 7-11 (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



2 nd Quarter (43 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Oct 14-18 (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
2 nd : Oct 21-25 (5 days)	Wave Characteristics	TSW compare the characteristics of amplitude, frequency, and wavelength in transverse waves, including the electromagnetic spectrum	8.8A
3 rd : Oct 28- Nov 1 (4 days)	Friday: Parent/Teacher Conferences 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
4 th : Nov 4-8 (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
5 th : Nov 11-15 (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
6 th : Nov 18-22 (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
7 th : Nov 25-29	Thanksgiving Holiday		
8 th : Dec 2-6 (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
9 th : Dec 9-13 (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
10 th : Dec 16-20 (5 days)	Review & Assessment	Review & Assessment	Review & Assessment
Winter Break			



3 rd Quarter (44 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Jan 6-10 (5 days)	Monday: Professional Development 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
2 nd : Jan 13-17 (5 days)	Genes and Traits	TSW describe the function of genes within chromosomes in determining inherited traits of offspring	8.13B
3 rd : Jan 20-24 (4 days)	Monday: MLK Holiday Genes and Traits	TSW describe the function of genes within chromosomes in determining inherited traits of offspring	8.13B
4 th : Jan 27-31 (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
5 th : Feb 3-7 (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
6 th : Feb 10-14 (5 days)	Friday: District Professional Development 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
7 th : Feb 17-21 (4 days)	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
8 th : Feb 24-28 (5 days)	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
9 th : Mar 3-7 (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
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)	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
Ramadan & Spring break Mar 24 - 31			
2nd: Apr 1-4 (4 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
3rd: April 7-11 (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 14- 18 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
5th: Apr 21-25 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
6th: Apr 28 -May 2 (5 days)	STAAR Testing	STAAR TESTING	STAAR TESTING
7th: May 5- 9 (5 days)	STAAR Testing	STAAR TESTING	STAAR TESTING
8th: May 12- 16 (5 days)	Review and Assessment	Review and Assessment	Review and Assessment
9th: May 19- 23 (5 days)	Award Ceremonies / Graduation Ceremonies		
10th May 26-28	Graduation ceremonies & staff working days	N/A	N/A