



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)	Elements and Compounds	TSW compare and contrast elements and compounds in terms of atoms and molecules, chemical symbols, and chemical formulas TSW use the periodic table to identify the atoms and the number of each kind within a chemical formula	7.6A 7.6B
3 rd : Aug 19-23 (3 days)	Elements and Compounds	TSW compare and contrast elements and compounds in terms of atoms and molecules, chemical symbols, and chemical formulas TSW use the periodic table to identify the atoms and the number of each kind within a chemical formula	7.6A 7.6B
4 th : Aug 26- Aug 30 (5 days)	Physical and Chemical Changes	TSW distinguish between physical and chemical changes in matter	7.6C
5 th : Sept 2-6 (4 days)	Monday: Labor Day Holiday Aqueous Solutions	TSW describe aqueous solutions in terms of solute and solvent, concentration, and dilution TSW investigate and model how temperature, surface area, and agitation affect the rate of dissolution of solid solutes in aqueous solutions	7.6D 7.6E
6 th : Sept 9-13 (5 days)	Speed and Velocity	TSW calculate average speed using distance and time measurements from investigations TSW distinguish between speed and velocity in linear motion in terms of distance, displacement, and direction	7.7A 7.7B
7 th : Sept 16-20 (5 days)	Speed and Velocity	TSW calculate average speed using distance and time measurements from investigations TSW distinguish between speed and velocity in linear motion in terms of distance, displacement, and direction	7.7A 7.7B
8 th : Sept 23-27 (4 days)	Distance-Time Graphs Friday: Professional Development	TSW measure, record, and interpret an object's motion using distance-time graphs	7.7C
9 th : Sept 30 Oct 4 (5 days)	Distance-Time Graphs	SW analyze the effect of balanced and unbalanced forces on the state of motion of an object using Newton's First Law of Motion	7.7C
10 th : Oct 7-11 (5 days)	Newton's First Law of Motion	TSW analyze the effect of balanced and unbalanced forces on the state of motion of an object using Newton's First Law of Motion	7.7D

2nd Quarter (43 Days)Resources:

STEMScopes

Week	Unit/Lesson		Learning Objectives	TEKS
1 st : Oct 14-18 (5 days)	Thermal Energy		TSW investigate methods of thermal energy transfer into and out of systems, including conduction, convection, and radiation TSW investigate how thermal energy moves in a predictable pattern from warmer to cooler until all substances within the system reach thermal equilibrium	7.8A 7.8B
2 nd : Oct 21-25 (5 days)	Thermal Energy		TSW investigate methods of thermal energy transfer into and out of systems, including conduction, convection, and radiation TSW investigate how thermal energy moves in a predictable pattern from warmer to cooler until all substances within the system reach thermal equilibrium	7.8A 7.8B
3 rd : Oct 28- Nov 1 (4 days)	Friday: Parent/Teacher Conferences Temperature and Kinetic Energy		TSW explain the relationship between temperature and the kinetic energy of the particles within a subs	7.8C
4 th : Nov 4-8 (5 days)	Temperature and Kinetic Energy		TSW explain the relationship between temperature and the kinetic energy of the particles within a subs	7.8C
5 th : Nov 11-15 (5 days)	Celestial Objects		TSW describe the physical properties, locations, and movements of the Sun, planets, moons, meteors, asteroids, comets, Kuiper belt, and Oort cloud	7.9A
6 th : Nov 18-22 (5 days)	Earth and Life		TSW analyze the characteristics of Earth that allow life to exist such as the proximity of the Sun, presence of water, and composition of the atmosphere	7.9C
7 th : Nov 25-29	Thanksgiving Holiday			
8 th : Dec 2-6 (5 days)	Plate Tectonics		TSW describe the historical development of evidence that supports plate tectonic theory TSW describe how plate tectonics causes ocean basin formation, earthquakes, mountain building, and volcanic eruptions, including supervolcanoes and hot spots	7.9A 7.9B
9 th : Dec 9-13 (5 days)	Plate Tectonics		TSW describe the historical development of evidence that supports plate tectonic theory	7.9A 7.9B



2 nd Quarter (43 Days)				
<u>Resources:</u> STEMScopes				
Week	Unit/Lesson		Learning Objectives	TEKS
			TSW describe how plate tectonics causes ocean basin formation, earthquakes, mountain building, and volcanic eruptions, including supervolcanoes and hot spots	
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 Gravity		TSW describe how gravity governs motion within Earth's solar system	7.9B
2 nd : Jan 13-17 (5 days)	Human Impacts on Watersheds		TSW analyze the beneficial and harmful influences of human activity on groundwater and surface water in a watershed	7.11A
3 rd : Jan 20-24 (4 days)	Monday: MLK Holiday Human Impacts on Watersheds		TSW analyze the beneficial and harmful influences of human activity on groundwater and surface water in a watershed	7.11A
4 th : Jan 27-31 (5 days)	Human Impact on Ocean Systems		TSW describe human dependence and influence on ocean systems and explain how human activities impact these systems	7.11B
5 th : Feb 3-7 (5 days)	Energy and Trophic Levels		TSW diagram the flow of energy within trophic levels and describe how the available energy decreases in successive trophic levels in energy pyramids TSW describe how ecosystems are sustained by the continuous flow of energy and the recycling of matter and nutrients within the biosphere	7.12A 7.12B
6 th : Feb 10-14 (5 days)	Friday: District Professional Development Human Body Systems		TSW identify and model the main functions of the systems of the human organism, including the circulatory, respiratory, skeletal, muscular, digestive, urinary, reproductive, integumentary, nervous, immune, and endocrine systems	7.13A



3 rd Quarter (44 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
7 th : Feb 17-21 (4 days)	Human Body Systems	TSW identify and model the main functions of the systems of the human organism, including the circulatory, respiratory, skeletal, muscular, digestive, urinary, reproductive, integumentary, nervous, immune, and endocrine systems	7.13A
8 th : Feb 24-28 (5 days)	Human Body Systems	TSW identify and model the main functions of the systems of the human organism, including the circulatory, respiratory, skeletal, muscular, digestive, urinary, reproductive, integumentary, nervous, immune, and endocrine systems	7.13A
9 th : Mar 3-7 (5 days)	Organism Organization	TSW describe the hierarchical organization of cells, tissues, organs, and organ systems within plants and animals	7.13B
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)	Reproduction	TSW compare the results of asexual and sexual reproduction of plants and animals in relation to the diversity of offspring and the changes in the population over time	7.13C
Ramadan & Spring break Mar 24 - 31			
2nd: Apr 1-4 (4 days)	Taxonomy	TSW describe the taxonomic system that categorizes organisms based on similarities and differences shared among groups TSW describe the characteristics of the recognized kingdoms and their importance in ecosystems such as bacteria aiding digestion or fungi decomposing organic matter	
3rd: April 7-11 (5 days)	Taxonomy	TSW describe the taxonomic system that categorizes organisms based on similarities and differences shared among groups TSW describe the characteristics of the recognized kingdoms and their importance in ecosystems such as bacteria aiding digestion or fungi decomposing organic matter	7.14A 7.14B
4th: April 14- 18 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW
5th: Apr 21-25	STAAR REVIEW	STAAR REVIEW	STAAR REVIEW



4 th Quarter (46 Days)			
<u>Resources:</u> StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
(5 days)			
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)	Map Benchmark		
9th: May 19- 23 (5 days)	Award Ceremonies / Graduation Ceremonies		
10th May 26-28	Graduation ceremonies & staff working days	N/A	N/A