



1 st Quarter (44 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1 st : Aug 11-14 (4 days)	Welcome to school	TW establish class routines and procedures	N/A
2 nd : Aug 17-22 (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 24-28 (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
4 th : Aug 31-Sep 4 (5 days)	Physical and Chemical Changes	TSW distinguish between physical and chemical changes in matter	7.6C
5 th : Sept 8-12 (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 14-18 (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 21-25 (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 28- Oct 2 (5 days)	Distance-Time Graphs Friday: Professional Development	TSW measure, record, and interpret an object's motion using distance-time graphs	7.7C
9 th : Oct 5-8 (4 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
9 th : Oct 5-8 (4 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



2 nd Quarter (43 Days)				
Resources: STEMScopes				
Week	Unit/Lesson		Learning Objectives	TEKS
1 st : Oct 14-16 (3 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 19-23 (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 26-30 (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 2-6 (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 9-13 (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 16-20 (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 24-28	Thanksgiving Holiday			
8 th : Nov 30-Dec 4 (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 7-11	Plate Tectonics		TSW describe the historical development of evidence that	7.9A



2 nd Quarter (43 Days)				
<u>Resources:</u> STEMScopes				
Week	Unit/Lesson		Learning Objectives	TEKS
(5 days)			supports plate tectonic theory TSW describe how plate tectonics causes ocean basin formation, earthquakes, mountain building, and volcanic eruptions, including supervolcanoes and hot spots	7.9B
10th : Dec14-18 (5 days)	Review & Assessment		Review & Assessment	Review & Assessment
Dec 21- Jan 1	Winter Break			

3 rd Quarter (44 Days)				
<u>Resources:</u> STEMScopes				
Week	Unit/Lesson		Learning Objectives	TEKS
1st : Jan 5-8 (5 days)	Monday Professional development Gravity		TSW describe how gravity governs motion within Earth's solar system	7.9B
2nd : Jan 11-15 (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
3rd : Jan 19-22 (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
4th : Jan 25-29 (5 days)	1/24: 100 Days of School Human Impact on Ocean Systems		TSW describe human dependence and influence on ocean systems and explain how human activities impact these systems	7.11B
5th : Feb 1-5 (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
6th : Feb 8-12	Human Body Systems		TSW identify and model the main functions of the systems of the human	7.13A



3 rd Quarter (44 Days)			
<u>Resources:</u> STEMScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
(5 days)		organism, including the circulatory, respiratory, skeletal, muscular, digestive, urinary, reproductive, integumentary, nervous, immune, and endocrine systems	
7 th : Feb 16-19 (4 days)	Monday: 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
8 th : Feb 22-26 (5 days)	Organism Organization	TSW describe the hierarchical organization of cells, tissues, organs, and organ systems within plants and animals	7.13B
9th: Mar 1-12	Spring Break March 10-14		
	Ramadan Break March 8-12		

4 th Quarter (46 Days)			
<u>Resources:</u> StemScopes			
Week	Unit/Lesson	Learning Objectives	TEKS
1st: Mar15-19 (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
2nd: Mar22-26 (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
3rd: Mar 29- Apr 2 (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 5-9 (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
5th: April 12-16	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 19-23 (5 days)	STAAR REVIEW	STAAR REVIEW	STAAR TESTING
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