



1 <sup>st</sup> Quarter (43 Days)			
Resources: Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories ( TEKS SEs)
1 <sup>st</sup> : Aug 14-18 (5 days)	Introduction to Science Unit 1: L1: What is science? L2: How does scientist learn about the Natural world? L3: Think like a Scientist?	TSW follow directions for an investigation to practice clear communication. TSW plan and conduct an investigation to observe and classify objects TSW describe how scientific knowledge differs from information gathered in other ways.	5.2-5.3
2 <sup>nd</sup> : Aug 21-25 (5 days)	L4: How can scientist learn from observations? L5: Making Measurements L6: How can scientists learn from observations? Unit 1 Review	TSW record data from repeated trials. TSW manipulate two type of variables TSW follow directions, plan and conduct an investigation to observe a small objects using a variety of tools.	5.2-5.3
3 <sup>rd</sup> : Aug 28-31 (4 days)	<b>Unit 1 Assessment</b> Unit 2: L1: What is the design process? L2: How can you design a solution to a problem? L3: How does technology improve our lives?	TSW identify the technologies in the photographs. TSW follow directions plan and conduct an investigation to invent a technology that meets a need. TSW follow directions, plan and conduct an investigation of how to set up a flow chart when designing a technology.	5.2-5.3
4 <sup>th</sup> : Sept 5-8 (4 days)	L4: How can you use engineering to solve a problem? Unit 2 review <b>Unit 2 Assessment</b> Unit 3: L1: What are observable physical properties of matter?	TSW analyze a tool and evaluate its effectiveness. TSW follow directions, plan and conduct an investigation of the physical properties of matter by making and playing a game.	5.2, 5.5



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5 <sup>th</sup> : Sept 11-15 (5 days)	L2: What are mixtures and solutions L3: How do substances change when they form solutions? Unit 3 Review	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water. TSW classify matter based on physical properties, including solubility in water. TSW identify changes that can occur in the physical properties of the ingredients of solutions.	5.2, 5.4, 5.5
6 <sup>th</sup> : Sept 18-22 (5 days)	<b>Unit 3 Assessment</b>	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water.	5.2, 5.4, 5.5
7 <sup>th</sup> : Sept 25-29 (5 days)	Unit 4: L1: What are forces? L2: How do forces affect motion? Unit 4 Review <b>Unit 4 Assessment</b>	TSW follow directions, plan and conduct an investigation to determine how to change the force required to do work. TSW experiment to determine how the size of a force/ mass of an object affects the motion of an object/ when a force is applied.	5.2,5.4,5.6
8 <sup>th</sup> : Oct 2-6 (5 days)	<b>1<sup>st</sup> Benchmark</b>	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water.	5.2, 5.4, 5.5
9 <sup>th</sup> : Oct 9-13 (5 days)	Unit 5: L1: What is energy? L2: What is thermal energy? L3: What changes can energy cause?	TSW follow directions, plan and conduct an investigation to observe how light travels. TSW follow directions, plan and conduct an investigation to determine which beaker of water contains the most thermal energy. TSW use empirical evidence to draw a conclusion. TSW demonstrate that solar energy can cause an object's temperature to change.	5.1, 5.2, 5.4, 5.6



2nd Quarter (43 Days)

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Week	Unit/Lesson	Learning Objectives	Reporting Categories ( TEKS SEs)
1 <sup>st</sup> : Oct 16-19 (4 days)	L4: What is electricity? L5: How do electric circuits, conductors, and insulators work?	TSW follow directions, plan and conduct an investigation to invent a use of for static electricity. TSW follow directions, plan and conduct an investigation to test the effect of different loads on a series circuit. TSW follow directions, plan and conduct an investigation to observe the effect of changing voltage in a circuit.	5.2, 5.3, 5.5, 5.6
2 <sup>nd</sup> : Oct 23-27 (5 days)	L6: How does an electric circuit work? Unit 5 Review <b>Unit 5 Assessment</b>	TSW build a combined circuit. TSW demonstrate that the flow of electricity through a circuit requires a complete path. TSW use empirical and observational evidence to explain the path of electricity through a circuit.	5.2 – 5.6
3 <sup>rd</sup> : Oct 31- Nov 3 (4 days)	<b>1<sup>st</sup> Benchmark</b>	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water.	5.2, 5.4, 5.5
4 <sup>th</sup> : Nov 6-10 (5 days)	Unit 6: L1: What is sound? L2: How does sound travel through solids, liquids, and gases? L3: What is light?	TSW follow directions, plan and conduct an investigation to observe vibrations with two senses. TSW follow directions plan and conduct an investigation of different sounds produced by strings on a guitar. TSW explore and describe the behavior of sound energy as it travels through on different media. TSW follow directions, plan and conduct an investigation to gather, organize, and display information about parts of the electromagnetic spectrum.	5.1-5.6
5 <sup>th</sup> : Nov 13-17 (5 days)	L4: What are some properties of light? L5: What happens when light is reflected or refracted? Unit 6 Review <b>Unit 6 Assessment</b>	TSW follow directions, plan and conduct an investigation to observe the effect of refraction on visual perceptions. TSW follow directions, plan and conduct an investigation to observe and record how lenses bend light.	5.2,5.6
6 <sup>th</sup> : Nov 27- Dec 1 (5 days)	Unit 7: L1: What are processes that shape Earth’s surface?	TSW follow directions, plan and conduct an investigation to model how wind erodes different-sized sediments.	5.2,5.3, 5.7



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<b>Week</b>	<b>Unit/Lesson</b>	<b>Learning Objectives</b>	<b>Reporting Categories ( TEKS SEs)</b>
	L2: How does water change Earth's surface? L3: What are fossils?	TSW compare the effects of water moving at different speeds. TSW hypothesize about the causes and effect of water speed and slope on erosion.	
7 <sup>th</sup> : Dec 4-8 (5 days)	L4: What was ancient Earth like? L5: How can scientist use fossils? Unit 7 Review Unit 7 Assessment	TSW follow directions, plan and conduct an investigation to analyze a set of footprints. TSW recognize how fossils are used to determine the ages of rock layers.	5.2,5.7
8 <sup>th</sup> : Dec 11-15 (5 days)	<b>2<sup>nd</sup> Benchmark</b>	Review	Assessment
9 <sup>th</sup> : Dec 18-22 (5 days)	Unit 8: L1: How do people use resources? L2: How do people conserve resources?	TSW follow directions plan and conduct an investigation to determine the level of air pollution in certain areas. TSW follow directions, plan and conduct an investigation to determine which materials are best for filtering solid particles out of water.	5.1-5.2

**3rd Quarter (42 Days)**

<b>Resources:</b> Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
<b>Week</b>	<b>Unit/Lesson</b>	<b>Learning Objectives</b>	<b>Reporting Categories ( TEKS SEs)</b>
1 <sup>st</sup> : Jan 8-12 (5 days)	L3: How can we conserve resources? Unit 8 Review	TSW make informed choices in the conservation, disposal, and recycling of materials. TSW draw conclusion about how recycling paper can help conserve resources	5.1, 5.4
2 <sup>nd</sup> : Jan 16-18 (3 days)	Unit 8 Assessment Unit 9: L1: How does water move on Earth's surface?	TSW follow directions, plan and conduct an investigation to model how ocean currents affect the weather of coastal areas. TSW use models to investigate how water moves between the	5.1-5.4, 5.8



3rd Quarter (42 Days)			
Resources: Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories ( TEKS SEs)
	L2: What happens during the water cycle?	ocean, the atmosphere, and the land. TSW draw conclusions about the role of the ocean in the water cycle.	
<b>3rd : Jan 22-26</b> (5 days)		<b>1<sup>st</sup> Mock STAAR</b>	
<b>4<sup>th</sup>: Jan 29-Feb 2</b> (5 days)	L3: How do weather and climate differ? Unit 9 Review <b>Unit 9 Assessment</b>	TSW follow directions for an investigation to interpret drawings of tree rings and relate interpretation to climate changes. TSW use steps of the design process to build a model rainwater catcher.	5.1, 5.8
<b>5<sup>th</sup>: Feb 5-9</b> (5 days)	Unit 10: L1: How do the sun, Earth, and moon differ? L2: How does Earth's movement cause day and night? Unit 10 Review <b>Unit 10 Assessment</b>	TSW follow directions for an investigation to observe the apparent movement of the sun across the sky due to Earth's rotation. TSW plan and conduct research to analyze, evaluate, and critique scientific explanations about the moon's origin. TSW demonstrate that Earth's axis extends from pole to pole passing through Earth's center.	5.2-5.3, 5.8
<b>6<sup>th</sup>: Feb 12-16</b> (5 days)	Unit 11: L1: What is an ecosystem? L2: What are roles of organism in ecosystems? L3: What makes up a land ecosystem?	TSW follow directions for an investigation to make a matching puzzle of biotic and abiotic factors for an ecosystem. TSW follow directions for an investigation to separate the pigments in a leaf. TSW plan and conduct an investigation of adaptations in predators. TSW observe, identify, and classify common organisms in a land ecosystem.	5.9
<b>7<sup>th</sup> : Feb 20-23</b> (4 days)		<b>2<sup>nd</sup> Mock STAAR</b>	
<b>8<sup>th</sup>: Feb 26- Mar 2</b> (5 days)		<b>3<sup>rd</sup> Benchmark</b>	
<b>9<sup>th</sup>: Mar 5-9</b> (5 days)	L4: How does energy move through ecosystems? L5: What role do decomposers play? L6:	TSW follow directions for an investigation to model a food web. TSW plan and conduct an investigation of a backyard or park	5.2, 5.3, 5.9



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Week	Unit/Lesson	Learning Objectives	Reporting Categories ( TEKS SEs)
	How do environmental changes affect organisms?	food web. TSW observe the growth of a fungus. TSW describe, classify, and explain the decomposition process	

4th Quarter (48 Days)			
Resources: Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories ( TEKS SEs)
1 <sup>st</sup> : Mar 19-23 (5 days)	<b>3<sup>rd</sup> Mock STAAR</b>	Review and Assessment	Review and Assessment
2 <sup>nd</sup> : Mar 26-30 (5 days)	Unit 11 Review <b>Unit 11 Assessment</b>	TSW describe, classify, and explain the decomposition process	5.2, 5.3, 5.9
3 <sup>rd</sup> : Apr 2-6 (5 days)	<b>April 3: STAAR Gr 5 Math</b> <b>April 4: STAAR Gr 5 Reading</b> <b>April 6: Make up Day</b>	Review and Assessment	Review and Assessment
4 <sup>th</sup> : Apr 9-13 (5 days)	Unit 12: L1: What are physical and behavioral adaptations? L2: How do animals grow and reproduce?	TSW follow directions for an investigation to observe how plant growth is affected when plants are trimmed. TSW plan and conduct an investigation to observe an animals and make note of its adaptations. TSW follow directions for an investigation to create a model of metamorphosis.	5.4, 5.9, 5.10
5 <sup>th</sup> : April 16-19 (4 days)	L3: How are traits passed from parents to offspring? L4: How can we model inherited traits?	TSW follow directions for an investigation to model and predict inherited traits. TSW learn how traits are inherited.	5.3,5.10
6 <sup>th</sup> : Apr 23- 27 (5 days)	Unit 12 Review <b>Unit 12 Assessment</b>	TSW follow directions for an investigation to model and predict inherited traits. TSW learn how traits are inherited.	5.3,5.10
7 <sup>th</sup> : Apr 30- May 4 (5 days)	STAAR Review	STAAR Review	STAAR Review
8 <sup>th</sup> : May 7-11 (5 days)	<b>May 9: STAAR- Gr 5 Science</b>	STAAR Review	STAAR Review



4th Quarter (48 Days)

<b>Resources:</b> Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
<b>Week</b>	<b>Unit/Lesson</b>	<b>Learning Objectives</b>	<b>Reporting Categories ( TEKS SEs)</b>
9 <sup>th</sup> : May 14-18 (5 days)	<b>Final Benchmark</b>	Review and assessment	Review and assessment
10 <sup>th</sup> : May 21-24 (4 days)	Graduation Rehearsal	Graduation Rehearsal	Graduation Rehearsal