



1st Quarter (46 Days)

Resources:

Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	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
Week 2	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
Week 3	Unit 1 Assessment 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
Week 4	L4: How can you use engineering to solve a problem? Unit 2 review Unit 2 Assessment 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
Week 5	L2: What are mixtures and solutions L3: How do substances change when they form solutions?	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.	5.2, 5.4, 5.5



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Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
	Unit 3 Review	TSW identify changes that can occur in the physical properties of the ingredients of solutions.	
Week 6	Unit 3 Assessment	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water.	5.2, 5.4, 5.5
Week 7	Unit 4: L1: What are forces? L2: How do forces affect motion? Unit 4 Review Unit 4 Assessment	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
Week 8	1st Benchmark	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water.	5.2, 5.4, 5.5
Week 9	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
Week 10	Review	Review	Review

2nd Quarter (43 Days)

Resources:

Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	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	5.2, 5.3, 5.5, 5.6



2nd Quarter (43 Days)

Resources:

Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
		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.	
Week 2	L6: How does an electric circuit work? Unit 5 Review Unit 5 Assessment	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
Week 3	1st Benchmark	TSW follow directions, plan and conduct an investigation to determine which solid substances dissolve in water.	5.2, 5.4, 5.5
Week 4	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
Week 5	L4: What are some properties of light? L5: What happens when light is reflected or refracted? Unit 6 Review Unit 6 Assessment	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
Week 6	Unit 7: L1: What are processes that shape Earth’s surface? L2: How does water change Earth’s surface?	TSW follow directions, plan and conduct an investigation to model how wind erodes different-sized sediments. TSW compare the effects of water moving at different speeds. TSW hypothesize about the causes and effect of water speed and slope on	5.2,5.3, 5.7



2nd Quarter (43 Days)

Resources: Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
	L3: What are fossils?	erosion.	
Week 7	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
Week 8	2nd Benchmark	Review	Assessment
Week 9	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 (43 Days)

Resources: Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	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
Week 2	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 ocean, the	5.1-5.4, 5.8



3rd Quarter (43 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?	atmosphere, and the land. TSW draw conclusions about the role of the ocean in the water cycle.	
Week 3		1st Mock STAAR	
Week 4	L3: How do weather and climate differ? Unit 9 Review Unit 9 Assessment	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
Week 5	Unit 10: L1: How do the sun, Earth, and moon differ? L2: How does Earth’s movement cause day and night? Unit 10 Review Unit 10 Assessment	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
Week 6	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
Week 7		2nd Mock STAAR	
Week 8		3rd Benchmark	
Week 9	L4: How does energy move through ecosystems? L5: What role do decomposers play? L6: How do environmental changes affect organisms?	TSW follow directions for an investigation to model a food web. TSW plan and conduct an investigation of a backyard or park food web. TSW observe the growth of a fungus. TSW describe, classify, and explain the decomposition process	5.2, 5.3, 5.9



4th Quarter (46 Days)			
<u>Resources:</u> Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	3 rd Mock STAAR	Review and Assessment	Review and Assessment
Week 2	Unit 11 Review Unit 11 Assessment	TSW describe, classify, and explain the decomposition process	5.2, 5.3, 5.9
Week 3	April 9: STAAR Gr 5 Math April 10: STAAR Gr 5 Reading	Review and Assessment	Review and Assessment
Week 4	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
Week 5	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
Week 6	Unit 12 Review Unit 12 Assessment	TSW follow directions for an investigation to model and predict inherited traits. TSW learn how traits are inherited.	5.3,5.10
Week 7	STAAR Review	STAAR Review	STAAR Review
Week 8	May 15: STAAR- Gr 5 Science	STAAR Review	STAAR Review
Week 9	Final Benchmark	Review and assessment	Review and assessment
Week 10	Graduation Rehearsal	Graduation Rehearsal	Graduation Rehearsal