



1 st Quarter (43 Days)			
Resources: Science Fusion_Houghton Mifflin Harcourt, getepic.com, brainpopjr.com, superteacherworksheets.com, readinga-z.com			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	Safety in science	<ul style="list-style-type: none"> Safety in science 	Learn the classroom routines and procedures for a safe and challenging learning environment
Week 2	Unit 1: Doing Science Lesson 1: Our Senses	<ul style="list-style-type: none"> Identify/describe the 5 senses and how to use them to observe and learn about the world. Identify the sensory organ associated with its sense. Observe one thing's many properties. 	K.2D Record and organize data and observations using pictures, numbers, and words K.4B Use senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment
Week 3	Unit 1: Doing Science Lesson 2: Science Skills	<ul style="list-style-type: none"> Observe/describe things and ask questions about them and their surroundings. Identify the science processes. Demonstrate how science processes can be used to describe things or investigate questions. 	K.2A Ask questions about organisms, objects and events observed in the natural world K.2D Record and organize data and observations using pictures, numbers and words K.4A Collect information using nonstandard measuring items such as paper clips
Week 4	Unit 1: Doing Science Lesson 3: Science Tools	<ul style="list-style-type: none"> Identify science tools and recognize how they help in investigations. Use a hand lens, a measuring cup, a thermometer, a balance, and a ruler to help analyze things. Describe safe ways to conduct investigations. 	K.2C collect data and make observations using simple equipment such as hand lenses, primary balances, and nonstandard measurement tools K.2D Record and organize data and observations using pictures, numbers and words K.3C Explore that scientists investigate different things in the natural world and use tools K.4A Collect information using tools, including hand lenses, primary balances, cups, and weather instruments such as demonstration thermometers
Week 5	Unit 1: Doing Science (Review & Test)	Review Unit 1 (Doing Science) and take a test on it.	K.2A, K.2C, K.2D, K.3C, K.4A, K.4B
Week 6	Unit 2: Science and Technology Lesson 4: Solving Problems Lesson 5: Design Process	<ul style="list-style-type: none"> Explain that people find solutions to problems. Identify engineers as people who solve problems. Identify the steps in a design process. 	K.1C Demonstrate how to use, conserve, and dispose of natural resources/materials like conserving water, reusing/recycling paper, plastic, and metal K.2D Record and organize data and observations using pictures, numbers K.3A Identify and explain a problem and propose a solution for it
Week 7	Unit 2: Science and Technology (Review & Test)	Review Unit 2 (Science and Technology) and take a test on it.	K.1C, K.2D, K.3A
Week 8	Unit 3: Matter Lesson 6: Matter	<ul style="list-style-type: none"> Identify matter as a solid, a liquid, or a gas. Observe and describe properties of objects. Compare/sort objects based on conservable properties. 	K.2D Record and organize data and observations using pictures, numbers K.5 A Observe/record properties and objects' patterns (color, size, shape, texture)
Week 9	Unit 3: Matter Lesson 7: Heating and Cooling Matter	<ul style="list-style-type: none"> Observe, record, and discuss how matter can be changed by heating. Observe, record, and discuss how matter can be changed by cooling. <p style="text-align: center;">Benchmark # 1</p>	K.4B Use senses as a tool of observation to identify properties and patterns of organism, objects and events in the environment K.5B Observe, record and discuss how materials can be changed by heating or cooling
Week 10	Unit 3: Matter (Review & Test)	Review Unit 3 (Matter) and take a test on it.	K.2D, K.4B, K.5A, K.5B



2nd Quarter (43 Days)			
Resources: Science Fusion_Houghton Mifflin Harcourt, getepic.com, brainpopjr.com, superteacherworksheets.com, readinga-z.com			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	Unit 4: Energy Lesson 8: Light	<ul style="list-style-type: none"> Recognize the sun as Earth's source of light. Identify man-made light sources. Recognize how paper can be changed by exposure to sunlight. 	K.2D Record and organize data and observations using pictures, numbers K.6A Use the 5 senses to explore different forms of energy such as light, heat and sound
Week 2	Unit 4: Energy Lesson 9: Heat	<ul style="list-style-type: none"> Recognize the sun as Earth's source of heat. Recognize that sound, light and heat are kinds of energy. 	K.2D Record and organize data and observations using pictures, numbers and words K.6A Use the 5 senses to explore different forms of energy
Week 3	Unit 4: Energy Lesson 10: Sound	<ul style="list-style-type: none"> Observe that sound is made when objects vibrate. Identify sounds and the sources of their vibrations. Compare sounds for loudness, pitch, and rhythm. Identify the ear as a receiver of vibrations that produce sound. 	K.2D Record and organize data and observations using pictures, numbers and words K.6A Use the 5 senses to explore different forms of energy
Week 4	Unit 4: Energy (Review & Test)	Review Unit 4 (Energy) and take a test on it.	K.2D, K.6A
Week 5	Unit 5: Motion Lesson 11: Magnets	<ul style="list-style-type: none"> Observe and describe how magnets react to objects made of iron and steel. Sort objects according to whether or not magnets attract them. Observe that magnets can cause some objects to move without touching them. 	K.2B Record and organize data and observations using pictures, numbers, and words K.4A Collect information using tools, including magnets K.6B Explore interactions between magnets and various materials
	<i>Thanksgiving Break</i>	<i>Thanksgiving Break</i>	<i>Thanksgiving Break</i>
Week 6	Unit 5: Motion Lesson 12: Where Things Are	<ul style="list-style-type: none"> Observe the location of a thing in relations to another thing. Use position terms like above, below, behind, in front of, and beside to describe things' locations. 	K.2D Record and organize data and observations using pictures, numbers, and words K.6C Observe and describe the location of an object in relation to another such as above, below, behind, in front of and beside
Week 7	Unit 5: Motion Lesson 13: How Things Move	<ul style="list-style-type: none"> Observe and describe the ways things can move. Observe and describe movements as fast or slow. <p style="text-align: center;">Benchmark # 2</p>	K.2B Plan and conduct simple descriptive investigations such as ways objects move K.6D Observe and describe the ways that objects can move such as in a straight line, zigzag, up and down, back and forth, round and round, etc
Week 8	Unit 5: Motion (Review & Test)	Review Unit 5 (Motion) and take a test on it.	K.2B, K.2D, K.4A, K.6B, K.6C, K.6D
Week 9	Using Magnets S.T.E.M	<ul style="list-style-type: none"> Identify ways magnets play a part in the design of technology that helps us solve problems. 	K.2C, K.,3A, K.4A, K.6B
	<i>Winter Break</i>	<i>Winter Break</i>	<i>Winter Break</i>



3rd Quarter (43 Days)

Resources:

Science Fusion Houghton Mifflin Harcourt, getepic.com, brainpopjr.com, superteacherworksheets.com, readinga-z.com

Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	Unit 6: Earth's Resources Lesson 14: Rocks	<ul style="list-style-type: none"> Observe and describe rocks. Compare and sort rocks. Give examples of ways rocks are useful. 	K.2D Record and organize data and observations using pictures, numbers, K.7A Observe, describe, compare and sort rocks by size, shape, color and texture
Week 2	Unit 6: Earth's Resources Lesson 15: Water	<ul style="list-style-type: none"> Recognize that water is found in lakes, rivers & oceans. Understand that river water is fresh and the ocean's is salty. Describe the physical properties of water like clarity & color. 	K.2D Record and organize data and observations using pictures, numbers, K.7B Observe and describe the physical properties of natural sources of water, including color and clarity
Week 3	Unit 6: Earth's Resources Lesson 16: Natural Resources	<ul style="list-style-type: none"> Identify some natural resources. Give examples of ways rocks, soil & water are useful. Describe how to dispose of & conserve natural resources. Explore that some materials can be used and reused. Explain how to respect with the environment. 	K.1C Demonstrate how to use, conserve and dispose of natural resources and materials such as conserving water and reusing or recycling paper, plastic and metal K.2D Record and organize data and observations using pictures, numbers, K.7C Give example of ways rock, soil, and water are useful
Week 4	Unit 6: Earth's Resources (Review & Test)	Review Unit 6 (Earth's Resources) and take a test on it.	K1 C, K.2D, K.7A, K.7B, K.7C
Week 5	Unit 7: Weather and the Seasons Lesson 17: Weather Lesson 18: Measuring Weather	<ul style="list-style-type: none"> Identify and describe weather conditions. Observe/determine the weather effects on human activities. Observe and describe day-to-day weather changes. Identify the use of a thermometer and a windsock. Use common tools to measure weather. Use tools to observe and identify weather changes. 	K.2D Record and organize data and observations using pictures, numbers K.4A Collect information using weather instruments such as demonstration thermometer and wind socks K.8A Observe and describe weather changes from day to day
Week 6	Unit 7: Weather and the Seasons Lesson 19: Seasons	<ul style="list-style-type: none"> Identify/demonstrate the characteristics of the 4 seasons. Identify seasonal changes as a repeating pattern. Describe how the seasons affect plants and animals. 	K.2D Record and organize data and observations using pictures, numbers K.3B Make predictions based on observable patterns in nature K.8A Observe and describe weather changes from day to day K.8B Identify events that have repeating patterns such as day and night
Week 7	Unit 7: Weather and the Seasons (Review & Test)	Review Unit 7 (Earth's Resources) and take a test on it. Benchmark # 3	K.2D, K.3B, K.4A, K.8A, K.8B
Week 8	Unit 8: Day and Night Lesson 20: Day Sky	<ul style="list-style-type: none"> Observe/describe/illustrate objects in the day sky. Recognize that the sun can only be seen in the daytime. Recognize that things are pulled toward the ground. Observe that things can be big or small as seen from Earth. 	K.2D Record and organize data and observations using pictures, numbers K.8C Observe, describe, and illustrate objects in the sky such as clouds, moon, and stars, including the sun
Week 9	Unit 8: Day and Night Lesson 21: Night Sky	<ul style="list-style-type: none"> Observe, describe, and illustrate objects in the night sky. Observe that the moon can be seen at night or day. Observe the night & day as a repeating pattern. 	K.2D Record and organize data and observations using pictures, numbers K.3B Make predictions based on observable patterns in nature. K.8B Identify events that have repeating patterns like seasons day and night K.8C Observe, describe and illustrate objects in the sky such as clouds, moon and stars including the Sun.
	Spring Break	Spring Break	Spring Break



4th Quarter (46 Days)			
Resources: Science Fusion, Houghton Mifflin Harcourt, getepic.com, brainpopjr.com, superteacherworksheets.com, readinga-z.com			
Week	Unit/Lesson	Learning Objectives	Reporting Categories (TEKS SEs)
Week 1	Unit 8: Day and Night (Review & Test)	Review Unit 8 (Day and Night) and take a test on it.	K.2D, K.3B, K.B, K.8C
Week 2	Recycling Paper S.T.E.M	<ul style="list-style-type: none"> Understand that paper comes from a natural resource. Design a way to solve the problem of not recycled trash. 	K.1C, K.3A
Week 3	Unit 9: Animals Lesson 22: Living and Nonliving	<ul style="list-style-type: none"> Classify things as living and nonliving. Describe characteristics of living things. Describe characteristics of nonliving things. Sort living and nonliving things. 	K.2D Record and organize data and observations using pictures, numbers K.9A Differentiate between living and non living things based upon whether they have basic needs and produce offspring K.9B Examine evidence that living things have basic needs K.10C Identify ways that young plants resemble the parent plant
Week 4	Unit 9: Animals Lesson 23: Many Animals Unit 9: Animals Lesson 24: What Animals Need?	<ul style="list-style-type: none"> Compare animals by size, shape, or body coverings. Observe & describe similarities/differences in animals. Identify animals' body parts and how they move. Observe & illustrate what an animal needs (water, air, etc). Identify how people help pets meet their needs. Observe similarities between humans' and animals' needs. 	K.2D Record and organize data and observations using pictures, numbers K.10A Sort animals into groups based on physical characteristics such as color, size, body covering, or leaf shape K.9B Examine evidence that living things have basic needs such as food, water and shelter for animals K.10B Identify parts of animals such as eyes, limbs etc
Week 5	Unit 9: Animals (Review & Test)	Review Unit 9 (Animals) and take a test on it. IOWA/ ITBS Complete Battery K-2	K.2D, K.9A, K.9B, K.10A, K.10B, K.10C
Week 6	Unit 10: Plants Lesson 25: Plants with Leaves Lesson 26: What Plants Need	<ul style="list-style-type: none"> Identify trees and shrubs as kinds of plants. Observe and describe the shapes of leaves. Sort plants into groups based on the shape of their leaves. Make predictions based on observable patterns in nature. Recognize that plants need water, air, and light to grow. Observe/predict the growth of plants based on their needs. Infer reasons why plants are healthy or not healthy. 	K.2D Record and organize data and observations using pictures, numbers K.4B Use senses as a tool of observation to identify properties and patterns of organism, objects and events in the environment K.9B Examine evidence that living organisms have basic needs such as air, water, sunlight, nutrients and space for plants K.10A Sort plants into groups based on physical characteristics like leaves K.10B Identify parts of plants such as leaves, stem, roots etc.
Week 7	Unit 10 Plants Lesson 27: Plant Parts	<ul style="list-style-type: none"> Recognize that stems and roots are parts of plants. Observe and identify the parts of a plant. Describe how plant parts help a plant live. 	K.2D Record and organize data and observations using pictures, numbers K.10B Identify parts of plants such as leaves, stem, roots etc.
Week 8	Unit 10 Plants Lesson 28: Plants Grow and Change	<ul style="list-style-type: none"> Describe the sequence of stages in a plant's life cycle. Observe stages that are part of the life cycle of a plant. Identify ways that young plants resemble their parent plant. Benchmark # 4	K.2D Record and organize data and observations using pictures, numbers K.10C Identify ways that young plants resemble the parent plant K.10D Observe changes that are part of simple life cycle of a plant seed, seedling, plant, flower, and fruit
Week 9	Unit 10 Plants (Review & Test)	Review Unit 10 (Plants) and take a test on it.	K.2D, K.4B, K.9B, K.10A, K.10B, K.10C, K.10D
Week 10	Aquarium Design S.T.E.M	<ul style="list-style-type: none"> Explain that public aquariums are used to help injured animals & to educate people about marine & other animals. Explain that engineers design aquarium spaces. 	K.1C, K.4A, K.9B