

Cycle 1	28 Days	
	Sept. 8 – Oct. 16, 2020	
The recommended number of lessons is less than the number of days in the grading cycle to accommodate differentiated instruction, extended learning time, and assessment days. Complete instructional planning information and support are in the HISD Curriculum documents.		
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 1: Setting Up for Science In this unit, students identify what scientists do and learn how to safely conduct investigations, including how to stay safe when using science materials. Students will also set up interactive science notebooks for use throughout the year.	2 45-minute lessons <i>Labor Day</i> Sept. 7 Part 1: Suggested Pacing: Sept. 8 Part 2: Suggested Pacing: Sept. 9	Part 1: What Scientists Do (1 lesson) (PS) SCI.K.3C Explore that scientists investigate different things in the natural world and use tools to help in their investigations.
		Part 2: Safety and Tools (1 lesson) (PS) SCI.K.1A* Identify, discuss, and demonstrate safe and healthy practices as outlined in Texas Education Agency-approved safety standards during classroom and outdoor investigations, including wearing safety goggles or chemical splash goggles, as appropriate, washing hands, and using materials appropriately. (PS) SCI.K.4A Collect information using tools, including computing devices, hand lenses, primary balances, cups, bowls, magnets, collecting nets, and notebooks ; timing devices; non-standard measuring items; weather instruments such as demonstration thermometers; and materials to support observations of habitats of organisms such as terrariums and aquariums.
Unit 2: Motion, Location, and Position In this unit, students explore ways that objects change and interact with other objects due to movement.	4 45-minute lessons Part 1 Suggested Pacing: Sept. 10-11 Part 2 Suggested Pacing: Sept. 14-15	Part 1: Location and Position (2 lessons) SCI.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, and fast and slow. SCI.K.6C Observe and describe the location of an object in relation to another such as above, below, behind, in front of, and beside. (PS) SCI.K.2B* Plan and conduct simple descriptive investigations. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations.
		Part 2: Magnets (2 lessons) SCI.K.6B Explore interactions between magnets and various materials. SCI.K.6C Observe and describe the location of an object in relation to another such as above, below, behind, in front of, and beside. (PS) SCI.K.2B* Plan and conduct simple descriptive investigations. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations. (PS) SCI.K.4A Collect information using tools, including computing devices, hand lenses, primary balances, cups, bowls, magnets , collecting nets, and notebooks; timing devices; non-standard measuring items; weather instruments such as demonstration thermometers; and materials to support observations of habitats of organisms such as terrariums and aquariums.

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Unit 3: The Five Senses In this unit, students use their senses to observe and sort materials to identify properties, patterns and to answer questions about the natural world.	5 45-minute lessons Suggested Pacing: Sept. 16-22	Unit 3: The Five Senses (5 lessons) (PS) SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment. (PS) SCI.K.2A Ask questions about organisms, objects, and events observed in the natural world. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations.	
Unit 4: Properties of Objects In this unit, students gather information about properties of objects by observing them and recording their observations.	7 45-minute lessons Part 1 Suggested Pacing: Sept. 23-24 Part 2 Suggested Pacing: Sept. 25-29 <i>Fall Holiday</i> <i>Sept. 28</i> <i>(students only)</i> Part 3 Suggested Pacing: Sept. 30	Part 1: Objects Have Size (2 lessons) SCI.K.5A* Observe and record properties of objects, including bigger or smaller , heavier or lighter, shape, color, and texture. (PS) SCI.K.2C Collect data and make observations using simple tools. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations.	
		Part 2: Objects are Heavy or Light (2 lessons) SCI.K.5A* Observe and record properties of objects, including bigger or smaller, heavier or lighter , shape, color, and texture. (PS) SCI.K.2D Record and organize data and observations using pictures, numbers, and words. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations (PS) SCI.K.4A Collect information using tools, including computing devices, hand lenses, primary balances , cups, bowls, magnets, collecting nets, and notebooks; timing devices; non-standard measuring items; weather instruments such as demonstration thermometers; and materials to support observations of habitats of organisms such as terrariums and aquariums.	
		Part 3: Objects Have Shape (1 lesson) SCI.K.5A* Observe and record properties of objects, including bigger or smaller, heavier or lighter, shape , color, and texture. (PS) SCI.K.2D Record and organize data and observations using pictures, numbers, and words. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations.	

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Unit 4: Properties of Objects In this unit, students gather information about properties of objects by observing them and recording their observations.	Part 4 Suggested Pacing: Oct. 1	Part 4: Objects Have Color (1 lesson) SCI.K.5A* Observe and record properties of objects, including bigger or smaller, heavier or lighter, shape, color , and texture. PS SCI.K.2D Record and organize data and observations using pictures, numbers, and words. PS SCI.K.2E* Communicate observations about simple descriptive investigations.
	Part 5 Suggested Pacing: Oct. 2 Extend Review Assess Reteach 5 days Oct. 5-9	Part 5: Objects Have Texture (1 lesson) SCI.K.5A* Observe and record properties of objects, including bigger or smaller, heavier or lighter, shape, color, and texture . PS SCI.K.2D Record and organize data and observations using pictures, numbers, and words. PS SCI.K.2E* Communicate observations about simple descriptive investigations.
Cycle 1 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning	5 45-minute lessons Suggested Pacing: Oct. 12-16	Cycle 1 Cumulative Project: Think Like a Scientist

Cycle 2	29 Days	
	Oct. 19 – Dec. 4, 2020	
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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 5: Exploring Energy In this unit, students conduct simple investigations and use their senses to explore thermal, light, and sound energy.	18 45-minute lessons Part 1 Suggested Pacing: Oct. 19-27 <i>Teacher Service Day</i> Oct. 21 Part 2 Suggested Pacing: Oct. 28 – Nov. 4 Part 3 Suggested Pacing: Nov. 5-12 Extend Review Assess Reteach 6 days Nov. 13-20 <i>Thanksgiving Holiday</i> Nov. 23-27	Part 1: Thermal Energy (6 lessons) SCI.K.6A* Use the senses to explore different forms of energy such as light, thermal, and sound. SCI.K.5B Observe, record, and discuss how materials can be changed by heating or cooling. PS SCI.K.2E* Communicate observations about simple descriptive investigations. PS SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.
		Part 2: Light Energy (6 lessons) SCI.K.6A* Use the senses to explore different forms of energy such as light, thermal, and sound. PS SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.
		Part 3: Sound Energy (6 lessons) SCI.K.6A* Use the senses to explore different forms of energy such as light, thermal, and sound. PS SCI.K.2B* Plan and conduct simple descriptive investigations. PS SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.
Cycle 2 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning	5 45-minute lessons Suggested Pacing: Nov. 30 – Dec. 4	Cycle 2 Cumulative Project: Energy All Around Me

Cycle 3	28 Days	
	Dec. 7, 2020 – Jan. 28, 2021	
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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 6: Patterns of Change In this unit, students observe, identify, and explore patterns of change in nature.	17 45-minute lessons Part 1 Suggested Pacing: Dec. 7-11 Part 2 Suggested Pacing: Dec. 14-18 <i>Winter Break</i> Dec. 21, 2020 – Jan. 1, 2021 Part 3 Suggested Pacing: Jan. 4-12 Extend Review Assess Reteach 6 days Jan. 13-21 <i>MLK Jr. Day</i> Jan. 18	Part 1: Day and Night (5 lessons) SCI.K.8B Identify events that have repeating patterns, including seasons of the year and day and night . SCI.K.8C Observe, describe, and illustrate objects in the sky such as the clouds, Moon, and stars, including the Sun. Ⓟ SCI.K.2A Ask questions about organisms, objects, and events observed in the natural world. Ⓟ SCI.K.3B* Make predictions based on observable patterns in nature.
		Part 2: Weather (5 lessons) SCI.K.8A* Observe and describe weather changes from day to day and over seasons. Ⓟ SCI.K.3C Explore that scientists investigate different things in the natural world and use tools to help in their investigations.
		Part 3: Changes in Seasons (7 lessons) SCI.K.8A* Observe and describe weather changes from day to day and over seasons. SCI.K.8B Identify events that have repeating patterns, including seasons of the year and day and night. Ⓟ SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.
Cycle 3 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning.	5 45-minute lessons Suggested Pacing: Jan. 22 -28 <i>Teacher Prep Day</i> Jan. 29	Cycle 3 Cumulative Project: Ready for the Weather

Cycle 4	29 Days	
	Feb. 1 – March 12, 2021	
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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 7: Earth Materials In this unit, students explore and compare various types of Earth materials.	10 45-minute lessons Part 1 Suggested Pacing: Feb. 1-5	Part 1: Properties of Rocks (5 lessons) SCI.K.7A Observe, describe, and sort rocks by size, shape, color, and texture. (PS) SCI.K.1A* Identify, discuss, and demonstrate safe and healthy practices as outlined in Texas Education Agency-approved safety standards during classroom and outdoor investigations, including wearing safety goggles or chemical splash goggles, as appropriate, washing hands, and using materials appropriately. (PS) SCI.K.3C Explore that scientists investigate different things in the natural world and use tools to help in their investigations.
	Part 2 Suggested Pacing: Feb. 8-12	Part 2: Properties of Water (5 lessons) SCI.K.7B Observe and describe physical properties of natural sources of water, including color and clarity. (PS) SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.
Unit 8: Natural Resources and Conservation In this unit, students explore how natural resources are used every day and how those resources may be preserved and managed wisely.	10 45-minute lessons Part 1 Suggested Pacing: Feb. 15-19	Part 1: Usefulness of Resources (5 lessons) SCI.K.7C* Give examples of ways rocks, soil, and water are useful. (PS) SCI.K.2B* Plan and conduct simple descriptive investigations.
	Part 2 Suggested Pacing: Feb. 22 – Mar. 1 <i>Teacher Service Day</i> <i>Feb. 24</i> Extend Review Assess Reteach 5 days Mar. 2-8	Part 2: Conservation of Resources (5 lessons) (PS) SCI.K.1B Demonstrate how to use, conserve, and dispose of natural resources and materials such as conserving water and reusing or recycling paper, plastic, and metal. (PS) SCI.K.3A Identify and explain a problem such as the impact of littering and propose a solution. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations.

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	Feb. 1 – March 12, 2021	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Cycle 4 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning.	4 45-minute lessons Suggested Pacing: Mar. 9-12 <i>Spring Break</i> <i>Mar. 15-19</i>	<u>Cycle 4 Cumulative Project: How We Use Rocks</u>

Cycle 5	28 Days	The recommended number of lessons is less than the number of days in the grading cycle to accommodate differentiated instruction, extended learning time, and assessment days. Complete instructional planning information and support are in the HISD Curriculum documents.
	Mar. 22 – Apr. 30, 2021	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 9: Living Organisms and Nonliving Objects In this unit, students investigate the basic needs of organisms and distinguish living organisms from nonliving objects.	5 45-minute lessons Suggested Pacing: Mar. 22-26 <i>Chavez/Huerta Day</i> Mar. 29	Unit 9: Living Organisms and Nonliving Objects (5 lessons) SCI.K.9A Differentiate between living and nonliving things based upon whether they have basic needs and produce offspring. SCI.K.10A* Sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape.
Unit 10: Plants are Living Organisms In this unit, students observe the basic parts and life cycle of plants.	9 45-minute lessons Part 1 Suggested Pacing: Mar. 30 – Apr. 1 <i>Spring Holiday</i> Apr. 2 Part 2 Suggested Pacing: Apr. 5-7 Part 3 Suggested Pacing: Apr. 8-12	Part 1: Plant Needs (3 lessons) SCI.K.9B* Examine evidence that living organisms have basic needs such as food, water, and shelter for animals and air, water, nutrients, sunlight, and space for plants. (PS) SCI.K.1A* Identify, discuss, and demonstrate safe and healthy practices as outlined in Texas Education Agency-approved safety standards during classroom and outdoor investigations, including wearing safety goggles or chemical splash goggles, as appropriate, washing hands, and using materials appropriately. (PS) SCI.K.2E* Communicate observations about simple descriptive investigations.
		Part 2: Plant Parts (3 lessons) SCI.K.10B Identify basic parts of plants and animals. SCI.K.10A* Sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape.
		Part 3: Plant Life Cycle (3 lessons) SCI.K.10C Identify ways that young plants resemble the parent plant. SCI.K.10D Observe changes that are part of a simple life cycle of a plant: seed, seedling, plant, flower, and fruit. (PS) SCI.K.2B* Plan and conduct simple descriptive investigations.

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	Mar. 22 – Apr. 30, 2021	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 11: Animals are Living Organisms In this unit, students observe animals and identify their basic needs and physical features.	6 45-minute lessons Part 1 Suggested Pacing: Apr. 13-15 Part 2 Suggested Pacing: Apr. 16-20 Extend Review Assess Reteach 5 days Apr. 21-27	Part 1: Animal Needs (3 lessons) SCI.K.9B* Examine evidence that living organisms have basic needs such as food, water, and shelter for animals and air, water, nutrients, sunlight, and space for plants. PS SCI.K.3C Explore that scientists investigate different things in the natural world and use tools to help in their investigations. Part 2: Animal Features (3 lessons) SCI.K.10B Identify basic parts of plants and animals . SCI.K.10A* Sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape. PS SCI.K.4B* Use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.
Cycle 5 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning.	3 45-minute lessons Suggested Pacing: Apr. 28-30	Cycle 5 Cumulative Project: How to Care for a Pet

Cycle 6	29 Days	
	May 3 – June 11, 2021	
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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Unit 12: Physical Characteristics of Plants and Animals In this unit, students sort organisms based on their physical characteristics.	12 45-minute lessons Suggested Pacing: May 3-18	Unit 12: Physical Characteristics of Plants and Animals (12 lessons) SCI.K.10A* Sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape. PS SCI.K.3B* Make predictions based on observable patterns in nature.
Unit 13: Descriptive Investigations In this unit, students plan and conduct simple descriptive investigations.	8 45-minute lessons Suggested Pacing: May 19-28 Extend Review Assess Reteach 6 days June 1-8	Unit 13: Descriptive Investigations (8 lessons) PS SCI.K.2B* Plan and conduct simple descriptive investigations. PS SCI.K.2E* Communicate observations about simple descriptive investigations. PS SCI.K.1A* Identify, discuss, and demonstrate safe and healthy practices as outlined in the TEA-approved safety standards during classroom and outdoor investigations, including wearing safety goggles, washing hands, and using materials appropriately.
Cycle 6 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning.	3 45-minute lessons Suggested Pacing: June 9-11	Cycle 6 Cumulative Project: Plants and Animals in My Neighborhood