

Cycle 1	38 Days	
	Aug. 26 – Oct. 18, 2019	
	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:
<p><u>Unit 1: Setting Up for Science</u> In this unit, students explore what scientists do, identify safe practices in science, set up interactive notebooks, and review important tools they will be using in science.</p>	<p>5 45-minute lessons</p> <p>Part 1 Suggested Pacing: Aug. 26-27</p> <p>Part 2 Suggested Pacing: Aug. 28-30</p> <p><i>Labor Day Sept. 2</i></p>	<p>Part 1: What Scientists Do (2 lessons) Ⓟ SCI.1.3C Describe what scientists do.</p> <hr/> <p>Part 2 Safety and Tools (3 lessons) Ⓟ SCI.1.1A Identify, discuss, and demonstrate safe and healthy practices as outlined in the 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. Ⓟ SCI.1.4A Collect, record, and compare information using tools, including computers, hand lenses, primary balances, cups, bowls, magnets, collecting nets, notebooks, and safety goggles or chemical splash goggles, as appropriate; timing devices; nonstandard measuring items; weather instruments such as demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums.</p>
<p><u>Unit 2: Motion</u> In this unit, students demonstrate and record ways that objects can move.</p>	<p>9 45-minute lessons</p> <p>Suggested Pacing: Sept. 3-13</p>	<p>Unit 2: Motion (9 lessons) SCI.1.6C Demonstrate and record the ways that objects can move such as in a straight line, zig zag, up and down, back and forth, round and round, and fast and slow. Ⓟ SCI.1.3B Make predictions based on observable patterns. Ⓟ SCI.1.2B Plan and conduct simple descriptive investigations. Ⓟ SCI.1.2D Record and organize data using pictures, numbers, and words.</p>
<p><u>Unit 3: Magnetism</u> In this unit, students describe how magnets can be used to push or pull some objects.</p>	<p>4 45-minute lessons</p> <p>Suggested Pacing: Sept. 16-19</p> <p>Extend Review Assess Reteach Sept. 20-27</p> <p><i>Early Dismissal Sept. 27</i></p>	<p>Unit 3: Magnetism (4 lessons) SCI.1.6B Predict and describe how a magnet can be used to push or pull an object.</p>

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	District Formative Assessment 1 Suggested Window: Sept. 25-27 See Outline for TEKS Details	
<u>Unit 4: Properties of Objects</u> In this unit, students use simple science tools to classify objects by their observable properties.	13 45-minute lessons Part 1 Suggested Pacing: Sept. 30 – Oct. 2	Part 1: Objects Have Size and Length (3 lessons) SCI.1.5A Classify objects by observable properties such as larger and smaller , heavier and lighter, shape, color, and texture. Ⓟ SCI.1.2A Ask questions about organisms, objects, and events observed in the natural world. Ⓟ SCI.1.2C Collect data and make observations using simple tools. Ⓟ SCI.1.2D Record and organize data using pictures, numbers, and words. Ⓟ SCI.1.4A Collect, record, and compare information using tools, including computers, hand lenses, primary balances, cups, bowls, magnets, collecting nets, notebooks, and safety goggle or chemical splash goggles as appropriate; timing devices; nonstandard measuring items ; weather instruments such as demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums. Ⓟ SCI.1.4B Measure and compare organisms and objects using nonstandard units.
	Part 2 Suggested Pacing: Oct. 3-7	Part 2: Objects Take Up Space (3 lessons) SCI.1.5A Classify objects by observable properties such as larger and smaller , heavier and lighter, shape, color, and texture. Ⓟ SCI.1.4A Collect, record, and compare information using tools, including computing devices, hand lenses, primary balances, cups, bowls , magnets, collecting nets, notebooks, and safety goggles or chemical splash goggles as appropriate; timing devices; nonstandard measuring items ; weather instruments such as demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums. Ⓟ SCI.1.4B Measure and compare organisms and objects using nonstandard units.
	Part 3 Suggested Pacing: Oct. 8-11 <i>Fall Holiday</i> Oct. 9 <i>(students only)</i>	Part 3: Objects are Heavy and Light (3 lessons) SCI.1.5A Classify objects by observable properties such as larger and smaller, heavier and lighter , shape, color, and texture. Ⓟ SCI.1.2C Collect data and make observations using simple tools.

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<p>Unit 4: Properties of Objects</p> <p>In this unit, students use simple science tools to classify objects by their observable properties.</p>	<p>Part 4 Suggested Pacing: Oct. 14</p>	<p>Part 4: Objects Sink and Float (1 lesson) SCI.1.5A Classify objects by observable properties such as larger and smaller, heavier and lighter, shape, color, and texture.</p>	
	<p>Part 5 Suggested Pacing: Oct. 15-17</p> <p><i>Early Dismissal</i> Oct. 18</p> <p>Extend Review Assess Reteach Oct. 18</p>	<p>Part 5: Objects Can be Classified in Multiple Ways (3 lessons) SCI.1.5A Classify objects by observable properties such as larger and smaller, heavier and lighter, shape, color, and texture. SCI.1.5C Classify objects by the materials from which they are made. ^{PS} SCI.1.2C Collect data and make observations using simple tools.</p>	

Cycle 2	39 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.
	Oct. 21 – Dec. 19, 2019		
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:	
<p>Unit 5: <u>Thermal, Light, and Sound Energy</u></p> <p>In this unit, students identify and discuss the importance of energy in everyday life.</p>	<p>15 45-minute lessons</p> <p>Part 1 Suggested Pacing: Oct. 21-25</p> <p>Part 2 Suggested Pacing: Oct. 28 – Nov. 1</p> <p>Part 3 Suggested Pacing: Nov. 4-8</p> <p><i>Early Dismissal</i> Nov. 8</p> <p>Extend Review Assess Reteach Nov. 11-15</p> <p>District Formative Assessment 2 Suggested Window: Nov. 13-15</p> <p>See Outline for TEKS Details</p>	<p>Part 1: Thermal Energy (5 lessons) SCI.1.5B Predict and identify changes in materials caused by heating and cooling. SCI.1.6A Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life. Ⓟ SCI.1.3B Make predictions based on observable patterns. Ⓟ SCI.1.4A Collect, record, and compare information using tools, including computing devices, hand lenses, primary balances, cups, bowls, magnets, collecting nets, notebooks, and safety goggles or chemical splash goggles, as appropriate; timing devices; nonstandard measuring items; weather instruments such as demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums.</p>	
		<p>Part 2: Light Energy (5 lessons) SCI.1.6A Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life.</p>	
<p>Part 3: Sound Energy (5 lessons) SCI.1.6A Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life.</p>			
<p>Unit 6: <u>Patterns of Change</u></p> <p>In this unit, students observe and investigate natural changes that occur in our world during</p>	<p>16 45-minute lessons</p> <p>Part 1 Suggested Pacing: Nov. 18 – Dec. 6</p>	<p>Part 1: Weather Patterns (10 lessons) SCI.1.8A Record weather information, including relative temperature, such as hot or cold, clear or cloudy, calm or windy, and rainy or icy. SCI.1.8D Demonstrate that air is all around us and observe that wind is moving air. Ⓟ SCI.1.3B Make predictions based on observable patterns. Ⓟ SCI.1.3C Describe what scientists do.</p>	

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	Oct. 21 – Dec. 19, 2019		
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:	
various periods of time.	<p><i>Thanksgiving Holiday</i> Nov. 25-29</p> <p>Part 2 Suggested Pacing: Dec. 9-16</p> <p>Extend Review Assess Reteach Dec. 17-19</p> <p><i>Teacher Prep Day</i> Dec. 20</p> <p><i>Winter Break</i> Dec. 23 – Jan. 3</p>	<p>Part 2: Seasonal Patterns (6 lessons)</p> <p>SCI.1.8C Identify characteristics of the seasons of the year and day and night.</p> <p>Ⓢ SCI.1.3B Make predictions based on observable patterns.</p>	

Cycle 3	49 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.
	Jan. 6 – Mar. 13, 2020		
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:	
<u>Unit 7:</u> <u>Earth Materials</u> In this unit, students investigate natural resources.	10 45-minute lessons Part 1 Suggested Pacing: Jan. 6-10 Part 2 Suggested Pacing: Jan. 13-17 <i>Early Dismissal</i> <i>Jan. 17</i> <i>MLK Jr. Day</i> <i>Jan. 20</i>	Part 1: Properties of Soil (5 lessons) SCI.1.7A Observe, compare, describe, and sort components of soil by size, texture, and color.	
		Part 2: Properties of Natural Water Sources (5 lessons) SCI.1.7B Identify and describe a variety of natural sources of water, including streams, lakes, and oceans.	
<u>Unit 8:</u> <u>Natural Resources and Conservation</u> In this unit, students understand how natural resources are used to make products and conserved.	9 45-minute lessons Part 1 Suggested Pacing: Jan. 21-24 Part 2 Suggested Pacing: Jan. 27-31	Part 1: Uses of Resources (4 lessons) SCI.1.7C Identify how rocks, soil, and water are used to make products.	
		Part 2: Conservation of Resources (5 lessons) (PS) SCI.1.1B Identify and learn how to use natural resources and materials, including conservation and reuse or recycling of paper, plastic, and metals. (PS) SCI.1.3A Identify and explain a problem and propose a solution.	
<u>Unit 9:</u> <u>Patterns of Objects in the Sky</u> In this unit, students observe and record changes in the appearance of objects in the sky.	10 45-minute lessons Suggested Pacing: Feb. 3-14 <i>Early Dismissal</i> <i>Feb. 14</i> Extend Review Assess Reteach Feb. 17-21	Unit 9: Patterns of Objects in the Sky (10 lessons) SCI.1.8B Observe and record changes in the appearance of objects in the sky such as the Moon and stars, including the Sun. SCI.1.8C Identify characteristics of the seasons of the year and day and night . (PS) SCI.1.3B Make predictions based on observable patterns.	

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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
	<p>District Formative Assessment 3 Suggested Window: Feb. 19-21</p> <p>See Outline for TEKS Details</p>	
<p><u>Unit 10: Living Organisms and Nonliving Objects</u> In this unit, students compare and contrast living organisms and nonliving objects.</p>	<p>5 45-minute lessons</p> <p>Suggested Pacing: Feb. 24-28</p>	<p><u>Unit 10: Living Organisms and Nonliving Objects</u> (5 lessons) SCI.1.9A Sort and classify living and nonliving things based upon whether they have basic needs and produce offspring.</p>
<p><u>Unit 11: Plant Parts</u> In this unit, students observe, describe, and compare plant parts.</p>	<p>5 45-minute lessons</p> <p>Suggested Pacing: Mar. 2-6</p> <p>Extend Review Assess Reteach Mar. 9-13</p> <p><i>Spring Break</i> <i>Mar. 16-20</i></p>	<p><u>Unit 11: Plant Parts</u> (5 lessons) SCI.1.10B Identify and compare the parts of plants. PS SCI.1.3C Describe what scientists do.</p>

Cycle 4	47 Days	
	Mar. 23 – May 29, 2020	
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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<p>Unit 12: Animal Features and Life Cycles In this unit, students investigate ways physical features effect an animal's behavior and compare animal life cycles.</p>	<p>13 45-minute lessons</p> <p>Part 1 Suggested Pacing: Mar. 23 – Apr. 3 <i>Chávez/Huerta Day</i> Mar. 30</p> <p>Part 2 Suggested Pacing: Apr. 6-9 <i>Spring Holiday</i> Apr. 10</p>	<p>Part 1: Animal Features (9 lessons) SCI.1.10A Investigate how the external characteristics of an animal are related to where it lives, how it moves, and what it eats. SCI.1.10C Compare ways that young animals resemble their parents.</p> <hr/> <p>Part 2: Animal Life Cycles (4 lessons) SCI.1.10C Compare ways that young animals resemble their parents. SCI.1.10D Observe and record life cycles of animals such as a chicken, frog, or fish. PS SCI.1.3B Make predictions based on observable patterns.</p>
<p>Unit 13: Environmental Interactions In this unit, students investigate various environmental interactions that occur in nature.</p>	<p>15 45-minute lessons</p> <p>Part 1 Suggested Pacing: Apr. 13-21</p> <p>Part 2 Apr. 22 – May 1</p> <p>Extend Review Assess Reteach May 4-8</p> <p>District Formative Assessment 4 Suggested Window: May 6-8</p> <p>See Outline for TEKS Details</p>	<p>Part 1: Food Chains (7 lessons) SCI.1.9C Gather evidence of interdependence among living organisms such as energy transfer through food chains or animals using plants for shelter.</p> <hr/> <p>Part 2: Interdependence (8 lessons) SCI.1.9B Analyze and record examples of interdependence found in various situations such as terrariums and aquariums or pet and caregiver. PS SCI.1.3A Identify and explain a problem and propose a solution.</p>

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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:	
<p><u>Unit 14: Descriptive Investigations</u> In this unit, students plan and complete simple descriptive investigations.</p>	<p>10 45-minute lessons</p> <p>Suggested Pacing: May 11-22</p> <p><i>Memorial Day</i> May 25</p> <p>Extend Review Assess Reteach May 26-29</p>	<p><u>Unit 14: Descriptive Investigations</u> (10 lessons)</p> <p>Ⓟ SCI.1.2B Plan and conduct simple descriptive investigations.</p> <p>Ⓟ SCI.1.2C Collect data and make observations using simple tools.</p> <p>Ⓟ SCI.1.2D Record and organize data using pictures, numbers, and words</p> <p>Ⓟ SCI.1.2E Communicate observations and provide reasons for explanations using student-generated data from simple descriptive investigations.</p>	