

Cycle 1	27 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.
	Aug. 23 - Oct. 1, 2021	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<p><b>Unit 1: Setting Up for Science</b> 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><b>2</b> 45-minute lessons</p> <p><i>Enrichment Opportunities</i> Aug. 2-13</p> <p><i>Teachers Report to Work</i> Aug. 16</p> <p><i>Teacher Service Days</i> Aug. 16-17, Aug. 19-20</p> <p><i>Teacher Prep Day (no students)</i> Aug. 18</p> <p><b>Part 1 Suggested Pacing:</b> Aug. 23</p> <p><b>Part 2 Suggested Pacing:</b> Aug. 24</p>	<p><b>Part 1: What Scientists Do</b> (1 lesson)                      (PS) <b>SCI.1.3C</b> Describe what scientists do.</p> <hr/> <p><b>Part 2: Safety and Tools</b> (1 lesson)                      (PS) <b>SCI.1.1A</b> 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.                      (PS) <b>SCI.1.4A</b> 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; non-standard 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><b>Unit 2: Motion</b> In this unit, students demonstrate and record ways that objects can move.</p>	<p><b>3</b> 45-minute lessons</p> <p><b>Suggested Pacing:</b> Aug. 25-27</p>	<p><b>Unit 2: Motion</b> (3 lessons)  <b>SCI.1.6C</b> 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.                      (PS) <b>SCI.1.3B</b> Make predictions based on observable patterns.                      (PS) <b>SCI.1.2B</b> Plan and conduct simple descriptive investigations.                      (PS) <b>SCI.1.2D</b> Record and organize data using pictures, numbers, and words.</p>

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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 3: Magnetism</b> In this unit, students describe how magnets can be used to push or pull some objects.	<b>4</b> 45-minute lessons  <b>Suggested Pacing:</b> Aug. 30 – Sept. 2	<b>Unit 3: Magnetism</b> (4 lessons) <b>SCI.1.6B</b> Predict and describe how a magnet can be used to push or pull an object.
<b>Unit 4: Properties of Objects</b> In this unit, students use simple science tools to classify objects by their observable properties.	<b>8</b> 45-minute lessons  <b>Part 1</b> <b>Suggested Pacing:</b> Sept. 3  <i>Labor Day</i> Sept. 6  <b>Part 2</b> <b>Suggested Pacing:</b> Sept. 7  <b>Part 3</b> <b>Suggested Pacing:</b> Sept. 8-9  <b>Part 4</b> <b>Suggested Pacing:</b> Sept. 10  <b>Part 5</b> <b>Suggested Pacing:</b> Sept. 13-15  <i>Fall Holiday</i> Sept. 16	<b>Part 1: Objects Have Different Sizes</b> (1 lesson) <b>SCI.1.5A</b> Classify objects by observable properties such as <b>larger and smaller</b> , heavier and lighter, shape, color, and texture. (PS) <b>SCI.1.2A</b> Ask questions about organisms, objects, and events observed in the natural world. (PS) <b>SCI.1.2C</b> Collect data and make observations using simple tools. (PS) <b>SCI.1.2D</b> Record and organize data using pictures, numbers, and words. (PS) <b>SCI.1.4A</b> 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; <b>non-standard measuring items</b> ; weather instruments such as demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums. (PS) <b>SCI.1.4B</b> Measure and compare organisms and objects using non-standard units.
		<b>Part 2: Objects Have Capacity</b> (1 lesson) <b>SCI.1.5A</b> Classify objects by observable properties such as <b>larger and smaller</b> , heavier and lighter, shape, color, and texture. (PS) <b>SCI.1.4A</b> Collect, record, and compare information using tools, including computing devices, hand lenses, primary balances, <b>cups, bowls</b> , magnets, collecting nets, notebooks, and safety goggles or chemical splash goggles as appropriate; timing devices; <b>non-standard measuring items</b> ; weather instruments such as demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums. (PS) <b>SCI.1.4B</b> Measure and compare organisms and objects using non-standard units.
		<b>Part 3: Objects are Heavy and Light</b> (2 lessons) <b>SCI.1.5A</b> Classify objects by observable properties such as larger and smaller, <b>heavier and lighter</b> , shape, color, and texture. (PS) <b>SCI.1.2C</b> Collect data and make observations using simple tools.

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Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 4: Properties of Objects</b> In this unit, students use simple science tools to classify objects by their observable properties.	<i>Teacher Service Day (no students)</i> Sept. 17	<b>Part 4: Objects Sink and Float</b> (1 lesson) <b>SCI.1.5A</b> Classify objects by observable properties such as larger and smaller, heavier and lighter, shape, color, and texture.
	<b>Extend Review Assess Reteach</b> 5 days Sept. 20-24	<b>Part 5: Objects Can be Classified in Multiple Ways</b> (3 lessons) <b>SCI.1.5A</b> Classify objects by observable properties such as larger and smaller, heavier and lighter, shape, color, and texture. <b>SCI.1.5C</b> Classify objects by the materials from which they are made. <b>PS SCI.1.2C</b> Collect data and make observations using simple tools.
	<b>District Formative Assessment (DFA 1)</b> <b>Suggested Window:</b> Sept. 22-24  <a href="#">See Outline for TEKS Details</a>	
<b>Cycle 1 Cumulative Project</b> Students will use the content learned during this cycle to engage in Project-Based Learning.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Sept. 27 – Oct. 1	<b>Cycle 1 Cumulative Project: Make It Move!</b>

Cycle 2	29 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. 5 - Nov. 12, 2021	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 5: Thermal, Light, and Sound Energy</b> In this unit, students identify and discuss the importance of energy in everyday life.	<b>18</b> 45-minute lessons  <i>Teacher Service Day (no students)</i> Oct. 4  <b>Part 1 Suggested Pacing:</b> Oct. 5-12	<b>Part 1: Thermal Energy</b> (6 lessons) <b>SCI.1.5B</b> Predict and identify changes in materials caused by heating and cooling. <b>SCI.1.6A</b> Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life. (PS) <b>SCI.1.3B</b> Make predictions based on observable patterns. (PS) <b>SCI.1.4A</b> 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; non-standard measuring items; weather instruments such as <b>demonstration thermometers</b> and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums.
	<b>Part 2 Suggested Pacing:</b> Oct. 13-20	<b>Part 2: Light Energy</b> (6 lessons) <b>SCI.1.6A</b> Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life.
	<b>Part 3 Suggested Pacing:</b> Oct. 21-28	<b>Part 3: Sound Energy</b> (6 lessons) <b>SCI.1.6A</b> Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life.
	<b>Extend Review Assess Reteach</b> 6 days Oct. 28 – Nov. 5	
<b>Cycle 2 Cumulative Project</b> Students will use the content learned during this cycle to engage in Project-Based Learning.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Nov. 8-12	<b>Cycle 2 Cumulative Project: Let's Join the Band!</b>

Cycle 3	30 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.
	Nov. 15, 2021 - Jan. 14, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 6: Patterns of Change</b> In this unit, students observe and investigate natural changes that occur in our world during various periods of time.	<b>19</b> 45-minute lessons  <b>Part 1 Suggested Pacing:</b> Nov. 15 – Dec. 6  <i>Thanksgiving Break</i> Nov. 22-26  <b>Part 2 Suggested Pacing:</b> Dec. 7-16  <b>Extend Review Assess Reteach</b> 6 days Dec. 17; Jan. 3-7  <i>Enrichment Opportunities</i> Dec. 20-21  <i>Winter Break</i> Dec. 20-31	<b>Part 1: Weather Patterns</b> (11 lessons) <b>SCI.1.8A</b> Record weather information, including relative temperature, such as hot or cold, clear or cloudy, calm or windy, and rainy or icy. <b>SCI.1.8D</b> Demonstrate that air is all around us and observe that wind is moving air. Ⓟ <b>SCI.1.3B</b> Make predictions based on observable patterns. Ⓟ <b>SCI.1.3C</b> Describe what scientists do.
	<b>District Formative Assessment (DFA 2) Suggested Window:</b> Jan. 5-7  <a href="#">See Outline for TEKS Details</a>	<b>Part 2: Seasonal Patterns</b> (8 lessons) <b>SCI.1.8C</b> Identify characteristics of the <b>seasons of the year</b> and day and night. Ⓟ <b>SCI.1.3B</b> Make predictions based on observable patterns.

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	Nov. 15, 2021 - Jan. 14, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Cycle 3 Cumulative Project</b> Students will use the content learned during this cycle to engage in Project-Based Learning.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Jan. 10-14  <i>MLK Jr. Day</i> <i>Jan. 17</i>  <i>Teacher Prep Day</i> <i>(no students)</i> <i>Jan. 18</i>	<u><b>Cycle 3 Cumulative Project: I Am a Meteorologist</b></u>

Cycle 4	27 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. 19 - Feb. 25, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 7: Earth Materials</b> In this unit, students investigate natural resources.	<b>7</b> 45-minute lessons  <b>Part 1</b> <b>Suggested Pacing:</b> Jan. 19-21  <b>Part 2</b> <b>Suggested Pacing:</b> Jan. 24-27	<b>Part 1: Properties of Soil</b> (3 lessons) <b>SCI.1.7A</b> Observe, compare, describe, and sort components of soil by size, texture, and color.
		<b>Part 2: Properties of Natural Water Sources</b> (4 lessons) <b>SCI.1.7B</b> Identify and describe a variety of natural sources of water, including streams, lakes, and oceans.
<b>Unit 8: Natural Resources and Conservation</b> In this unit, students understand how natural resources are used to make products and conserved.	<b>6</b> 45-minute lessons  <b>Part 1</b> <b>Suggested Pacing:</b> Jan. 28 – Feb. 1  <b>Part 2</b> <b>Suggested Pacing:</b> Feb. 2-4	<b>Part 1: Uses of Resources</b> (3 lessons) <b>SCI.1.7C</b> Identify how rocks, soil, and water are used to make products.
		<b>Part 2: Conservation of Resources</b> (3 lessons) <b>PS</b> <b>SCI.1.1B</b> Identify and learn how to use natural resources and materials, including conservation and reuse or recycling of paper, plastic, and metals. <b>PS</b> <b>SCI.1.3A</b> Identify and explain a problem and propose a solution.
<b>Unit 9: Objects in the Sky</b> In this unit, students observe and record changes in the appearance of objects in the sky.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Feb. 7-11  <b>Extend Review Assess Reteach</b> 5 days Feb. 14-18  <b>District Formative Assessment (DFA 3)</b>	<b>Unit 9: Objects in the Sky</b> (5 lessons) <b>SCI.1.8B</b> Observe and record changes in the appearance of objects in the sky such as the Moon and stars, including the Sun. <b>SCI.1.8C</b> Identify characteristics of the seasons of the year and <b>day and night</b> . <b>PS</b> <b>SCI.1.3B</b> Make predictions based on observable patterns.

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	Jan. 19 - Feb. 25, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
	<p><b>Suggested Window:</b> Feb. 16-18</p> <p><a href="#">See Outline for TEKS Details</a></p> <p><i>Teacher Service Day / Presidents' Day (no students) Feb. 21</i></p>	
<p><b>Cycle 4 Cumulative Project</b> Students will use the content learned during this cycle to engage in Project-Based Learning.</p>	<p><b>4</b> 45-minute lessons</p> <p><b>Suggested Pacing:</b> Feb. 22-25</p>	<p><b><u>Cycle 4 Cumulative Project: Resources Around Town</u></b></p>



Cycle 5	33 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.
	Feb. 28 - Apr. 22, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 10: Living Organisms and Nonliving Objects</b> In this unit, students compare and contrast living organisms and nonliving objects.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Feb. 28 – Mar. 4	<b>Unit 10: Living Organisms and Nonliving Objects</b> (5 lessons) <b>SCI.1.9A</b> Sort and classify living and nonliving things based upon whether they have basic needs and produce offspring.
<b>Unit 11: Plant Parts</b> In this unit, students observe, describe, and compare plant parts.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Mar. 7-11  <i>Enrichment Opportunities</i> Mar. 14-16  <i>Spring Break</i> Mar. 14-18	<b>Unit 11: Plant Parts</b> (5 lessons) <b>SCI.1.10B</b> Identify and compare the parts of plants. <b>PS SCI.1.3C</b> Describe what scientists do.
<b>Unit 12: Animal Features and Life Cycles</b> In this unit, students investigate ways physical features effect an animal's behavior and compare animal life cycles.	<b>13</b> 45-minute lessons  <b>Part 1 Suggested Pacing:</b> Mar. 21-29  <i>Chávez-Huerta Day</i> Mar. 28  <b>Part 2 Suggested Pacing:</b> Mar. 30 – Apr. 7	<b>Part 1: Animal Features</b> (6 lessons) <b>SCI.1.10A</b> Investigate how the external characteristics of an animal are related to where it lives, how it moves, and what it eats. <b>SCI.1.10C</b> Compare ways that young animals resemble their parents.  <b>Part 2: Animal Life Cycles</b> (7 lessons) <b>SCI.1.10C</b> Compare ways that young animals resemble their parents. <b>SCI.1.10D</b> Observe and record life cycles of animals such as a chicken, frog, or fish. <b>PS SCI.1.3B</b> Make predictions based on observable patterns

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	Feb. 28 - Apr. 22, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
	<p><b>Extend Review Assess Reteach</b> 5 days Apr. 8-14</p> <p><b>District Formative Assessment (DFA) 4</b> <b>Suggested Window:</b> Apr. 12-14</p> <p><a href="#">See Outline for TEKS Details</a></p> <p><i>Spring Holiday</i> Apr. 15</p>	
<p><b>Cycle 5 Cumulative Project</b> Students will use the content learned during this cycle to engage in Project-Based Learning.</p>	<p><b>5</b> 45-minute lessons</p> <p><b>Suggested Pacing:</b> Apr. 18-22</p>	<p><b><u>Cycle 5 Cumulative Project: My Backyard Safari</u></b></p>

Cycle 6	31 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.
	Apr. 25 - June 7, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Unit 13: Environmental Interactions</b> In this unit, students investigate various environmental interactions that occur in nature.	<b>11</b> 45-minute lessons  <b>Part 1 Suggested Pacing:</b> Apr. 25 – May 2  <b>Part 2 Suggested Pacing:</b> May 3-9	<b>Part 1: Food Chains</b> (6 lessons) <b>SCI.1.9C</b> Gather evidence of interdependence among living organisms such as energy transfer through food chains or animals using plants for shelter.
	<b>District Pre-Approved Assessment Suggested Window:</b> May 2-27  <a href="#">See Blueprint for TEKS Details</a>	<b>Part 2: Interdependence</b> (5 lessons) <b>SCI.1.9B</b> Analyze and record examples of interdependence found in various situations such as terrariums and aquariums or pet and caregiver. <b>PS SCI.1.3A</b> Identify and explain a problem and propose a solution.
<b>Unit 14: Descriptive Investigations</b> In this unit, students plan and complete simple descriptive investigations.	<b>9</b> 45-minute lessons  <b>Suggested Pacing:</b> May 10-20  <b>Extend Review Assess Reteach</b> 6 days May 23-31  <i>Memorial Day</i> May 30	<b>Unit 14: Descriptive Investigations</b> (9 lessons) <b>PS SCI.1.2B</b> Plan and conduct simple descriptive investigations. <b>PS SCI.1.2C</b> Collect data and make observations using simple tools. <b>PS SCI.1.2D</b> Record and organize data using pictures, numbers, and words <b>PS SCI.1.2E</b> Communicate observations and provide reasons for explanations using student-generated data from simple descriptive investigations.

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	Apr. 25 - June 7, 2022	
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
<b>Cycle 6 Cumulative Project</b> Students will use the content learned during this cycle to engage in Project-Based Learning.	<b>5</b> 45-minute lessons  <b>Suggested Pacing:</b> Jun. 1-7  <i>Teacher Prep Day</i> <i>(no students)</i> <i>June 8</i>	<b><u>Cycle 6 Cumulative Project: The Perfect Home</u></b>