2021-2022 Scope and Sequence

Science – Grade 4

	The recommended number of leasens is less than the number of days in the grading systems		
Cycle 1	<b>27 Days</b> Aug. 23 - Oct. 1,	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. O21 Complete instructional planning information and support are in the HISD Curriculum documents.	
	Number of	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs)	
Unit	Lessons	The student will:	
Unit 1: Setting Up for Science In this unit, students will begin building a foundation for science learning including reviewing science safety, setting up interactive notebooks, and exploring the contributions of scientists.	3 45-minute lessons Suggested Pacing: Aug. 23-25 Enrichment Opportunities Aug. 2-13 Teachers Report to Work Aug. 16 Teacher Service Days Aug. 16-17, Aug. 19-20 Teacher Prep Day (no students) Aug. 18	<ul> <li>Unit 1: Setting Up for Science (3 lessons)</li> <li>SCI.4.1A Demonstrate safe practices and the use of safety equipment as described in the Texas Education Agency-approved safety standards during classroom and outdoor investigations using safety equipment, including safety goggles or chemical splash goggles as appropriate, and gloves, as appropriate.</li> <li>SCI.4.3C Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.</li> <li>SCI.4.4A Collect, record, and analyze information using tools, including calculators, microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, mirrors, spring scales, balances, graduated cylinders, beakers, hot plates, meter sticks, compasses, magnets, collecting nets, and notebooks; timing devices, and materials to support observation of habitats of organisms such as terrariums and aquariums.</li> </ul>	
Unit 2: Investigating Force and Motion In this unit, students will design and carry out investigations with force and motion.	5 45-minute lessons Suggested Pacing: Aug. 26 – Sept. 1	<ul> <li><u>Unit 2: Investigating Force and Motion</u> (5 lessons)</li> <li>SCI.4.6D Design a descriptive investigation to explore the effect of force on an object such as a push or a pull, gravity, friction, or magnetism.</li> <li>SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> <li>SCI.4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured.</li> </ul>	
Unit 3: Matter In this unit, students will explore matter and differentiate its physical properties.	11 45-minute lessons <u>Part 1</u> Suggested Pacing: Sept. 2	Part 1: States of Matter (1 lesson) SCI.4.5A Measure, compare, and contrast physical properties of matter, mass, volume, states of matter (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.	

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2021-2022 Scope and Sequence

Science – Grade 4

	27 Days	The recommended number of lessons is less than the number of days in the grading cycle to		
Cycle 1	Aug. 23 - Oct. 1,	accommodate differentiated instruction, extended learning time, and assessment days.		
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:		
Unit 3: Matter In this unit, students will explore matter and differentiate its physical properties.	Part 2 Suggested Pacing: Sept. 3 <i>Labor Day</i> Sept. 6	<ul> <li><u>Part 2: Mass</u> (1 lesson)</li> <li>SCI.4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states of matter (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.</li> <li>SCI.4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.</li> <li>SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> </ul>		
	Part 3 Suggested Pacing: Sept. 7-8	<ul> <li>Part 3: Volume (2 lessons)</li> <li>SCI.4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states of matter (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.</li> <li>SCI.4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.</li> <li>SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> </ul>		
	Part 4 Suggested Pacing: Sept. 9	<ul> <li>Part 4: Temperature (1 lesson)</li> <li>SCI.4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states of matter (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.</li> <li>SCI.4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.</li> <li>SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> </ul>		
	Part 5 Suggested Pacing: Sept. 10	<ul> <li><u>Part 5: Magnetism</u> (1 lesson)</li> <li>SCI.4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states of matter (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.</li> <li>(*) SCI.4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.</li> <li>(*) SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> </ul>		



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2021-2022 Scope and Sequence

Science – Grade 4

Science – Grade 4				
Cycle 1	<b>27 Days</b> Aug. 23 - Oct. 1,	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.           2021         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 3: Matter In this unit, students will explore matter and differentiate its physical properties.	Part 6 Suggested Pacing: Sept. 13 Part 7 Suggested Pacing: Sept. 14-21 Fall Holiday Sept. 16 Teacher Service Day (no students) Sept. 17 Extend Review Assess Reteach 4 days Sept. 22-27	<ul> <li>Part 6: Sink and Float (1 lesson)</li> <li>SCI.4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states of matter (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.</li> <li>SCI.4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.</li> <li>SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> <li>Part 7: Mixtures and Solutions (4 lessons)</li> <li>SCI.4.5B Compare and contrast a variety of mixtures including solutions.</li> </ul>		
	District Formative Assessment (DFA) 1 Suggested Window: Sept. 23-27 See Outline for TEKS Details			
Cycle 1 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning.	4 45-minute lessons Suggested Pacing: Sept. 28 – Oct. 1	Cycle 1 Cumulative Project: Building Better Bridges (4 lessons)		



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#### **HISD** Elementary Curriculum and Development INSPIRING TEACHING, IGNITING LITERACY & LEARNING.

2021-2022 Scope and Sequence

Science – Grade 4

	Science – Grade 4					
Cycle 2	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.			
Unit	Oct. 5 - Nov. 12, Number of Lessons	Теха	21 Complete instructional planning information and support are in the HISD Curriculum documents exas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) the student will:			
Unit 4: Energy In this unit, students will differentiate among the forms of energy.	10 45-minute lessons Suggested Pacing: Oct. 5-18 Teacher Service Day (no students) Oct. 4	SCI.4 electr SCI.4	<ul> <li>4: Energy (10 lessons)</li> <li>4.6A Differentiate among forms of energy, including mechanical, sound, rical, light, and thermal.</li> <li>4.6B Differentiate between conductors and insulators of thermal and rical energy.</li> </ul>			
Unit 5: Investigating Circuits In this unit, students will conduct investigations by making opened and closed electrical circuits.	9 45-minute lessons Suggested Pacing: Oct. 19-29 Extend Review Assess Reteach 5 days Nov. 1-5	SCI.4 electr SCI.4	5: Investigating Circuits (9 lessons) I.6B Differentiate between conductors and insulators of thermal and rical energy. I.6C Demonstrate that electricity travels in a closed path, creating an rical circuit.			
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. 8-12	<u>Cycle</u>	e 2 Cumulative Project: Surviving Off the Grid (5 lessons)			



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2021-2022 Scope and Sequence

Science – Grade 4

Cycle 3	Nov 15 2021 -		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		es Essential Knowledge and Skills/Student Expectations (TEKS/SEs) student will:
Unit 6: Water Cycle In this unit, students will explore the processes of the water cycle.	6 45-minute lessons Suggested Pacing: Nov. 15-29 Thanksgiving Break Nov. 22-26	S S and Sun ® S	<ul> <li><u>6: Water Cycle</u> (6 lessons)</li> <li>CI.4.8B Describe and illustrate the continuous movement of water above on the surface of Earth through the water cycle and explain the role of the as a major source of energy in this process.</li> <li>CI.4.3B Represent the natural world using models such as water cycles, am tables, or fossils and identify their limitations, including accuracy and</li> </ul>
Unit 7: Weather In this unit, students will record weather change using metric tools and make predictions using weather maps and other weather recording tools.	6 45-minute lessons Suggested Pacing: Nov. 30 – Dec. 7	S S P metri draw P S	<ul> <li><u>7: Weather</u> (6 lessons)</li> <li>CI.4.8A Measure, record, and predict changes in weather.</li> <li>CI.4.2B Collect and record data by observing and measuring, using the ic system, and using descriptive words and numerals such as labeled rings, writing, and concept maps.</li> <li>CI.4.2C Construct simple tables, charts, bar graphs, and maps using tools current technology to organize, examine, and evaluate data.</li> </ul>



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2021-2022 Scope and Sequence

Science – Grade 4

Cycle 3	<b>30 Days</b> Nov. 15, 2021 - Jan. 14, 2022	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 8: Classifying Natural Resources In this unit, students explore natural resources and classify them as renewable and nonrenewable natural resources and determine how they can be conserved.	7 45-minute lessons Suggested Pacing: Dec. 8-16 Extend Review Assess Reteach 6 days Dec. 17 Jan. 3-7 <i>Enrichment</i> <i>Opportunities</i> Dec. 20-21 <i>Winter Break</i> Dec. 20-21 <i>Winter Break</i> Dec. 20-31 <u>District</u> Formative <u>Assessment</u> (DFA) 2 Suggested Window: Jan. 5-7 <u>See Outline for</u> <u>TEKS Details</u>	<ul> <li>Unit 8: Classifying Natural Resources (7 lessons)</li> <li>SCI.4.7C Identify and classify Earth's renewable resources, including air, plants, water, and animals; and nonrenewable resources, including coal, oil, and natural gas, and the importance of conservation.</li> <li>SCI.4.1B Make informed choices in the use and conservation of natural resources and reusing and recycling of materials such as paper, aluminum, glass, cans, and plastic.</li> </ul>			



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2021-2022 Scope and Sequence

Science – Grade 4

Cycle 3	<b>30 Days</b> Nov. 15, 2021		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. 14, 2022		
Unit	Number of Lessons		as Essential Knowledge and Skills/Student Expectations (TEKS/SEs) student will:
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. 10-14 <i>MLK Jr. Day Jan. 17</i> Teacher Prep Day (no students) Jan. 18	<u>Cyc</u>	le 3 Cumulative Project: What's the Weather? (5 lessons)



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Science – Grade 4

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	Science – Gra			
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.		
	Jan. 19 - Feb. 25			
Unit	Number of Lessons	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:		
Unit 9: Exploring Soil In this unit, students will explore soil composition and its ability to retain water and sustain life.	4 45-minute lessons Suggested Pacing: Jan. 19-24	<ul> <li><u>Unit 9: Exploring Soil</u> (4 lessons)</li> <li>SCI.4.7A Examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants.</li> <li>SCI.4.3B Represent the natural world using models such as water cycles, stream tables, or fossils and identify their limitations, including accuracy and size.</li> </ul>		
Unit 10: Weathering, Erosion, and Deposition In this unit, students will investigate weathering, erosion and deposition and their effects on Earth's landscape.	4 45-minute lessons Suggested Pacing: Jan. 25-28	<u>Unit 10: Weathering, Erosion, and Deposition</u> (4 lessons) SCI.4.7B Observe and identify slow changes to Earth's surface caused by weathering, erosion, and deposition from water, wind, and ice. SCI.4.3B Represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy and size.		
Unit 11: Exploring Natural Cyclical Events In this unit, students will explore the causes of the night/day cycle, seasons, and changes in the appearance of the moon.	9 45-minute lessons <u>Part 1</u> Suggested Pacing: Jan. 31 – Feb. 2 <u>Part 2</u> Suggested Pacing: Feb. 3-7 <u>Part 3</u> Suggested Pacing: Feb. 8-10	<ul> <li>Part 1: Shadows (3 lessons)</li> <li>SCI.4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.</li> <li>SCI.4.3B Represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy and size.</li> <li>Part 2: Seasons (3 lessons)</li> <li>SCI.4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.</li> <li>SCI.4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.</li> <li>SCI.4.3B Represent the natural world using models such as the water cycle and stream tables and identify their limitations, including accuracy and size.</li> <li>Part 3: Moon Phases (3 lessons)</li> <li>SCI.4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.</li> <li>SCI.4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.</li> <li>SCI.4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.</li> </ul>		
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2021-2022 Scope and Sequence

Science – Grade 4

27 Days	The recommended number of lessons is less than the number of days in the grading cycle to
Jan. 19 - Feb. 25,	accommodate differentiated instruction, extended learning time, and assessment days. 2022 Complete instructional planning information and support are in the HISD Curriculum documents.
	Texas Essential Knowledge and Skills/Student Expectations (TEKS/SEs) The student will:
Extend Review Assess Reteach 5 days Feb. 11-17	
District Formative Assessment (DFA) 3 Suggested Window: Feb. 15-17	
See Outline for TEKS Details	
<b>5</b> 45-minute lessons	Cycle 4 Cumulative Project: There's No Place Like Texas (5 lessons)
Suggested Pacing: Feb. 18-25 Teacher Service Day / Presidents' Day (no students) Feb. 21	
	Number of LessonsExtend Review Assess Reteach 5 days Feb. 11-17District Formative Assessment (DFA) 3 Suggested Window: Feb. 15-17See Outline for TEKS Details5 45-minute lessonsSuggested Pacing: Feb. 18-25Teacher Service Day / Presidents' Day (no students)



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#### **HISD** Elementary Curriculum and Development INSPIRING TEACHING, IGNITING LITERACY & LEARNING.

2021-2022 Scope and Sequence

Science – Grade 4

Science – Grade 4				
Cycle 5	<b>33 Days</b> Feb. 28 - Apr. 22	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. 2022 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 12: Animal and Plant Life Cycles In this unit, students will explore the growth of organisms and their life cycles.	10 45-minute lessons <u>Part 1</u> Suggested Pacing: Feb. 28 – Mar. 4 Chavez/Huerta Day Mar. 29	Part 1: Animal and Plant Growth (5 lessons) SCI.4.10C Explore, illustrate, and compare life cycles in living organisms such as beetles, crickets, radishes, or lima beans.		
	Part 2 Suggested Pacing: Mar. 7-11 Enrichment Opportunities Mar. 14-16 Spring Break Mar. 14-18	Part 2: Comparing Plant and Animal Life Cycles (5 lessons) SCI.4.10C Explore, illustrate, and compare life cycles in living organisms such as beetles, crickets, radishes, or lima beans.		
Unit 13: Exploring Producers and Consumers In this unit, students will explore interactions that occur between producers and consumers.	12 45-minute lessons Part 1 Suggested Pacing: Mar. 21-25 Part 2 Suggested Pacing: Mar. 29 – Apr. 6 Extend Review Assess Reteach 6 days Apr. 7-14	Part 1: Producers and Consumers (5 lessons)         SCI.4.9A Investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food.         Part 2: Food Webs (7 lessons)         SCI.4.9B Describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the ecosystem affect the food web.		

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2021-2022 Scope and Sequence

Science – Grade 4

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.	
- )	Feb. 28 - Apr. 22,	2022 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:	
	Chávez-Huerta Day Mar. 28 Spring Holiday Apr. 15		
	District Formative Assessment (DFA) 4 Suggested Window: Apr. 12-14 See Outline for TEKS Details		
Cycle 5 Cumulative Project Students will use the content learned during this cycle to engage in Project-Based Learning.	5 45-minute lessons Suggested Pacing: Apr. 18-22	<u>Cycle 5 Cumulative Project: Zoo Life</u> (5 lessons)	

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2021-2022 Scope and Sequence

Science – Grade 4

Science – Grade 4				
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.		
Oycic U	Apr. 25 - June 7,	2022 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 14: Inherited Traits, Learned Behavior, and Adaptations In this unit, students will learn how inherited traits, learned behaviors, and adaptations help organisms survive and thrive in their environments.	10 45-minute lessons Part 1 Suggested Pacing: Apr. 25-29 Part 2 Suggested Pacing: May 2-6 Extend Review Assess Reteach 6 days May 9-16 District Pre- Approved Assessment Suggested Window: May 2-27 See Blueprint for	Part 1: Inherited Traits and Learned Behavior (5 lessons)         SCI.4.10B Explore and describe examples of traits that are inherited from parent to offspring, such as eye color and shapes of leaves and behaviors that are learned such as reading a book and a wolf pack teaching their pups to hunt effectively.         Part 2: Adaptations (5 lessons)         SCI.4.10A Explore how structures and functions enable organisms to survive in their environment.		
	TEKS Details			
Unit 15: Designing Investigations In this unit, students will design and conduct descriptive and experimental investigations.	10 45-minute lessons Suggested Pacing: May 17-31 Memorial Day May 30	<ul> <li>Unit 15: Designing Investigations (10 lessons)</li> <li><sup>®</sup> SCI.5.2A Describe, plan, and implement simple experimental investigations testing one variable.</li> <li><sup>®</sup> SCI.4.2A Plan and implement descriptive investigations, including asking well-defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions.</li> <li><sup>®</sup> SCI.4.2B Collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps.</li> <li><sup>®</sup> SCI.4.2C Construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data.</li> <li><sup>®</sup> SCI.4.2D Analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured.</li> <li><sup>®</sup> SCI.4.2E Perform repeated investigations to increase the reliability of results.</li> <li><sup>®</sup> SCI.4.2F Communicate valid, oral, and written results supported by data.</li> </ul>		



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Science – Grade 4

Cyclo 6			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.
Cycle 6			
Unit			s Essential Knowledge and Skills/Student Expectations (TEKS/SEs) student will:
Cycle 6	5	Cycle 6 Cumulative Project: Solving a Community Issue Through	
Cumulative	45-minute	Experimental Investigations (5 lessons)	
Project	lessons		· · · · · · ·
Students will use			
the content	Suggested		
learned during this	Pacing:		
cycle to engage in Project-Based	Jun. 1-7		
Learning.	Teacher Prep		
	Day		
	(no students) June 8		



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