Everest Academy

2016-17 Scope & Sequence
Grade: First Subject: Science

Revised 6/3/2016

1st Quarter (45 Days)			
Resources: **Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)**			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Aug 8-12 *(5 days)*	**Unit 1 Lesson 1** *What are senses?*	TSW • Record and organize data, and communicate observations. • Identify the five senses and the body part associated with each sense. • Explain how the five senses help us learn.	§1.2A
2nd: Aug 15-19 *(5 days)*	**Unit 1 Lesson 2** *How Can We Use Our Senses?*	TSW • Recognize and demonstrate safe practices. • Plan and conduct simple descriptive investigations. • Collect and compare information and make observations using simple equipment.	1.2A, 1.2B, 1.2D
3rd: Aug 22-26 *(5 days)*	**Unit 1 Lesson 3** *What Are Inquiry Skills?*	TSW • Record and organize data using pictures, numbers, and words. • Communicate observations and provide reasons for explanations using student-generated data from simple descriptive investigations.	1.2D, 1.2E
4th: Aug 29-Sept 2 *(5 days)*	**Unit 1 Lessons 4-5** *What Are Science Tools?* *How Do We Use Inquiry Tools?*	TSW • Ask questions about organisms and objects observed in the natural world. • Describe what scientists do. • Collect data and make observations using simple equipment. • Collect and compare information using nonstandard measuring items. • Measure and compare objects using nonstandard units.	1.2A, 1.2B, 1.2D, 1.2C, 1.4A, 1.4B
5th: Sept 6-9 *(4 days)*	**Unit 1 Lesson 6** *How Do Scientists Work?*	TSW • Plan and conduct simple investigations. • Record and organize data. Share observations. • Describe what scientists do.	1.2A, 1.2B, 1.2D, 1.2E, 1.3C
6th: Sept 15-16 *(2 days)*	**Unit 1 Assessments**	Review and Assessment	
7th: Sept 19-23 *(5 days)*	**Unit 2 Lessons 1-2** *How Do Engineers Work?* *How Can We Solve a Problem?*	TSW • Recognize and demonstrate the importance of safe practices. • Identify and explain a problem and propose a solution in his/her own words.	1.3A, 1.2A, 1.2D
8th: Sept 26-30 *(5 days)*	**Unit 2 Lessons 3-4** *What Materials Make Up Objects?* *How Can Materials Be Sorted?*	TSW • Identify materials. • Classify objects by observable properties of the materials from which they are made.	1.1C, 1.5A, 1.2A, 1.2B, 1.2D
9th: Oct 3-7 *(5 days)*	**Unit 2 Assessment**	End of unit projects and assessments. **1st Benchmark**	
10th: Oct 10-14 *(5 days)*	**Unit 3 Lesson 1**	TSW • Classify objects by observable properties such as larger and smaller, heavier	1.2B, 1.2D, 1.5A

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	What Can We Observe About Objects?	and lighter, shape, color, and texture.	

2nd Quarter (39 Days)			
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Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Oct 17-21 *(5 days)*	**Unit 3 Lesson 2-3** *How Can We Measure Temperature?* *How Does Heating and Cooling Change Matter?*	TSW • Collect and compare information and make observations using thermometers. Record and organize data. • Identify changes in materials caused by heating and cooling. • Collect, record, and compare information using timing devices, such as clocks and timers.	1.2A, 1.2B, 1.2D, 1.4A, 1.5B
2nd: Oct 24-28 *(5 days)*	**Unit 3 Assessments**	End of unit projects and assessments.	
3rd: Oct 31- Nov 4 *(5 days)*	**Unit 4 Lesson 1** *How Do We Use Energy?*	TSW • Ask questions about events observed in the natural world. • Identify and discuss how different forms of energy such as light, heat, and sound are important to everyday life.	1.6A
4th: Nov 7-11 *(5 days)*	**Unit 4 Lesson 2** *How Do Magnets Move Objects?*	TSW • Collect and compare information using tools, including magnets. • Predict and describe how a magnet can be used to push or pull an object.	1.2B, 1.2D, 1.2E, 1.4A, 1.6B
5th: Nov 14-18 *(5 days)*	**Unit 4 Lessons 3-5** *How Do Objects Move?* *How Can We Change the Way Objects Move?*	TSW • Demonstrate and record 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. • Describe the change in the location of an object such as closer to, nearer to, and farther from.	1.6D, 1.2A, 1.2B, 1.2D, 1.6D, 1.6C
6th: Nov 28- Dec 2 *(5 days)*	**Unit 4 Assessment**	End of unit projects and assessments. **2nd Benchmark**	
7th: Dec 5-9 *(5 days)*	**Unit 5 Lessons 1-2** *What Can We Find on Earth?* *What Is Soil?*	TSW • Identify natural resources. • Gather evidence of how rocks, soil, and water help to make useful products. • Observe, compare, describe, and sort components of soil by size, texture, and color.	1.1C, 1.7C, 1.7A

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8th: Dec 12-16 *(5 days)*	**Unit 5 Lessons 3-4** *What Do We Find in Soil?* *How Do Soils Differ?*	TSW • Collect, compare, and make observations using hand lenses and safety goggles. • Observe and compare components of soil.	1.2A, 1.2B, 1.2D, 1.7A

3rd Quarter (46 Days)			
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Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st : Jan 3-6 *(4 days)*	**Unit 5 Lesson 5** *Where Can We Find Water?*	TSW • Record and compare information using notebooks. • Identify and describe a variety of natural resources of water, including streams, lakes, and oceans.	1.2B, 1.2D, 1.4A, 1.7B
2nd: Jan 9-13 *(5 days)*	**Unit 5 Lesson 6** *How Can We Save Resources?*	TSW • Identify and learn how to use natural resources and materials, including conservation and reuse or recycling of paper, plastic, and metals.	1.1C, 1.2B, 1.2D
3rd : Jan 17-20 *(4 days)*	**Unit 5 Assessment**	End of unit projects and assessments.	
4th : Jan 23-27 *(5 days)*	**Unit 6 Lessons 1-3** *What Is Weather?* *What Can We Observe About Weather?* *What Are Seasons?*	TSW • Make predictions based on observable patterns. • Collect and compare information using tools, such as classroom demonstration thermometers and windsocks. • Record weather information, including relative temperature. • Demonstrate that air is all around us and observe that wind is moving air. • Identify characteristics of the seasons of the year.	1.8A, 1.8D, 1.2A, 1.2B, 1.2D, 1.3B, 1.8A, 1.3B, 1.8C
5th: Jan 30-Feb 3 *(5 days)*	**Unit 6 Assessments**	End of unit projects and assessments.	
6th: Feb 6-10 *(5 days)*	**Unit 7 Lesson 1** *What Can We See In the Sky?*	TSW • Recognize the importance of safe practices to keep self and others safe and healthy. • Record and organize data. • Identify characteristics of day and night.	1.8C
7th: Feb 13-17 *(5 days)*	**Unit 7 Lessons 2-3** *How Does the Sky Seem to Change?* *How Does the Sun Seem to Move?*	TSW • Observe and record changes in the appearance of objects in the sky. • Make observations using non-standard measurement tools and measuring	1.3B, 1.8B, 1.2A, 1.2B, 1.2D, 1.4A, 1.4B, 1.8B

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		items. • Observe and record changes in the appearance of objects.	
8th : Feb 21-24 *(4 days)*	**Unit 7 Assessments**	End of unit projects and assessments. **3rd Benchmark**	
9th: Feb 27- Mar 3 *(5 days)*	**Unit 8 Lesson 1** *What Are Living and Nonliving Things?*	TSW • Ask questions about organisms and objects observed in the natural world. • Sort and classify living and nonliving things.	1.9A
10th: Mar 6-10 *(5 days)*	**Unit 8 Lessons 2-3** *Where Do Plants and Animals Live?* *What Is a Terrarium?*	TSW • Observe habitats of organisms such as aquariums and terrariums. • Gather evidence and record examples of interdependence among living things or found in various situations.	1.9B, 1.9C, 1.2A, 1.2B, 1.2D, 1.4A, 1.9B

4th Quarter (48 Days)			
Resources: **Houghton Mifflin Harcourt Texas Science Fusion Textbook (2016)**			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Mar 20-24 *(5 days)*	**Unit 8 Assessment**	End of unit projects and assessments.	
2nd: Mar 27-31 *(5 days)*	**Unit 9 Lessons 1-2** *How Do Animals Differ?* *How Can We Group Animals?*	TSW • Investigate how external characteristics of an animal are related to where it lives, how it moves, and what it eats.	1.10A, 1.2A, 1.2B, 1.2D, 1.10A
3rd: Apr 3-7 *(5 days)*	**Unit 9 Lesson 3** *What Are Some Animal Life Cycles?*	TSW • Compare ways that young animals resemble their parents. • Observe and record life cycles of animals such as a chicken, frog, or fish.	1.10C, 1.10D
4th: Apr 10-14 *(5 days)*	**Unit 9 Assessments**	End of unit projects and assessments. Preparation for IOWA/ITBS Complete Battery	Review
5th: April 18-22 *(5 days)*	Review	**IOWA/ ITBS Complete Battery KG-2**	Review
6th: Apr 24- 28 *(5 days)*	**Unit 10 Lesson 1** *What Are Some Parts of Plants?*	TSW • Collect and compare information and make observations using a hand lens. Record and organize data. Identify and compare the parts of plants.	1.10B
7th: May 1-5 *(5 days)*	**Unit 10 Lesson 2** *How Are Plants Different?*	TSW • Plan and conduct simple investigations. • Identify and compare the parts of plants.	1.10B

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8th: May 8-12 *(5 days)*	**Unit 10 Lesson 3** *How Can We Compare Leaves?*	TSW • Measure and compare organisms using non-standard units. • Identify and compare the parts of plants.	1.2A, 1.2B, 1.2D, 1.4A, 1.4B, 1.10B
9th: May 15-19 *(5 days)*	**End of the year review and projects.**	**Final Benchmark** TSW will review concepts learned through the year.	Review
10th: May 22-24 *(3 days)*	**End of the year review and projects.**	TSW will review concepts learned through the year.	Review