spring ISD
CURRICULUM AND INSTRUCTION

Elementary Science Scope & Sequence

1st Quarter (9 weeks) 8/14/19-10/10/19

❖ **Unit 0: SEL The First Five Days (5 Days: Aug.14-Aug.20)**
- ➢ Big Ideas: Becoming Self Aware
- ➢ Important Concepts: Emotional Health
  - Social Emotional Learning
  - Building Relationships
  - Establish Procedures and Routines

❖ **Unit 1: Science Safety (10 Days: Aug.21-Sept.5)**
- ➢ Big Ideas: The Importance Of Science Safety
- ➢ Important Concepts: How Do Scientists Work And Setting Up Science Journals
  - Scientists Investigate Questions
  - Safety Rules and Science Tools
  - Scientists Use Data
  - Set Up Journals Include Daily Weather
- ➢ 3.1A, 3.2A, 3.2B, 3.2C, 3.4A, 3.8A

❖ **Unit 2: Investigating Properties of Matter (20 Days: Sept.6-Oct.10)**
- ➢ Big Ideas: Properties of Matter
- ➢ Important Concepts: Exploring The Physical Properties of Matter
  - What Are Some Physical Properties Of Matter (Sink or Float)
  - How Can We Measure Magnetism
  - How Can We Record Changes In Matter(Heating & Cooling)
  - We Investigate And Conduct A Lab On Mixtures
  - How Can We Describe And Classify Matter
  - STEM Float Your Boat
- ➢ Readiness TEKS: 3.5A
- ➢ Supporting TEKS: 3.5B, 3.5C, 3.5D

Processing Standards: 3.1-3.4 Taught Throughout

2nd Quarter (9 weeks) 10/15/19-12/19/19

❖ **Unit 3: Investigating Force, Motion and Energy (20 Days:Oct. 15-Nov.20)**
- ➢ Big Ideas: Force, Motion, Gravity and Energy
- ➢ Important Concepts: Forms of Energy
  - What Are Some Forms of Energy
  - How Can Position And Locations Be Moved
  - Conduct Investigations On Machines and Forces
  - Observe Forces Such As Magnetism And Gravity
  - Exploring Mechanical, Light, Sound, And Thermal Energy
- ➢ Readiness TEKS: 3.6A
- ➢ Supporting TEKS: 3.6B, 3.6C

❖ **Unit 4: Investigating Earth's Materials (15 Days: Nov.21-Dec.18)**
- ➢ Big Ideas: Earth's Materials and Landforms
- ➢ Important Concepts: Processes on Earth can change Earth's landforms slowly or quickly
  - Explore And Record How Soils Are Formed By Weathering
  - Investigate The Rapid Changes To Earth's Surface During Severe Weather
  - What Are Some Natural Resources That Make Them Useful
  - How Can We Conserve Resources Such As Water, Sun and Wind Energy
  - The Decomposition Of Plant And Animal Remains (Fossils)
  - STEM Reducing Erosion
- ➢ Readiness TEKS: 3.7A
- ➢ Supporting TEKS: 3.7B, 3.7C

Processing Standards: 3.1-3.4 Taught Throughout

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3rd Quarter (9 weeks) 1/07/20-03/20/20

- **Unit 0: SEL The First Five Days (5 Days: Jan. 7-Jan.14)**
  - Big Ideas: Becoming Self Aware
  - Important Concepts: Emotional Health
    - Social Emotional Learning
    - Building Relationships
    - Establish Procedures and Routines

- **Unit 5: Investigating the Solar System and Weather (20 Days: Jan. 15-Feb. 11)**
  - Big Ideas: Earth, Space, and Weather
  - Important Concepts: How The Earth, Space, Sun, and Moon cause Weather Patterns
    - Observe, Measure And Record Day To Day Weather
    - Construct Models That Demonstrate Sun, Earth And Moon
    - Investigate The Sun And Understand It Is Made Of Gases
    - Planets in Our System And Their Relation To Our Sun
  - Readiness TEKS: 3.8B, 3.8D
  - Supporting TEKS: 3.8A, 3.8C

- **Unit 6: Investigating Ecosystems And Interactions (15 Days: Feb. 12-Mar.18)**
  - Big Ideas: Earth's Environments and Life Cycles
  - Important Concepts: Interdependence and Adaptations
    - Describe The Flow Of An Ecosystem
    - What Is A Food Chain And Humans Position In It
    - Describe What Happens During Environmental Changes
  - Readiness TEKS: 3.9A, 3.10A
  - Supporting TEKS: 3.9B, 3.9C

Processing Standards: 3.1-3.4 Taught Throughout

4th Quarter (9 weeks) 3/23/20-5/27/20

- **Unit 7: Organisms and Environments: Plants and Animals (30 Days: Mar.23-May 4)**
  - Big Ideas: Living Things Grow and Change
  - Important Concepts: What Plants and Animals Need To Survive
    - Explore Structures And Functions Of Plants And Animals
    - How Do Some Animals Adapt To A Changing Environment
    - The Life Cycle of Insects Such As Lady Beetles
    - Comparing Plant and Animal Life Cycles
    - STEM Challenge/Animal Migration
  - Readiness TEKS: 3.10A, 3.9A
  - Supporting TEKS: 3.10B

- **Unit 8 : Working As Scientists:Prepare For District Science Fair (15 Days: May 5-May 26)**
  - Big Ideas: Students Will Prepare For The District Science Fair
  - Important Concepts: Understanding The The Scientific Method To Create A Science Project
    - Getting Started
    - Doing Background Research
    - Constructing a Hypothesis
    - Testing Your Hypothesis by Doing an Experiment
    - Analyzing Your Data and Drawing a Conclusion
    - Communicating Your Results
  - Readiness TEKS: 3.5A, 3.6(A), 3.7(A), 3.8(B,D), 3.9 (A), 3.10(A)
  - Supporting TEKS: 3.5(B,C,D), 3.6(B,C), 3.7(B,C), 3.8(A,C), 3.9(B,C), 3.10(B)

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Elementary Science Scope & Sequence

	Processing Standards: 3.1-3.4 Taught Throughout