

# Elementary Science Scope & Sequence

1 <sup>st</sup> Quarter (9 weeks) 8/14/19-10/10/19	2 <sup>nd</sup> Quarter (9 weeks) 10/15/19-12/19/19
<p><b>Unit 0: SE The First Five Days (5 Days: Aug.14-Aug.20)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Becoming Self Aware</li> <li>➤ Important Concepts: Emotional Health</li> <li>● Building Relationships</li> <li>● Social Emotional Learning</li> <li>● Self-Awareness</li> <li>● Establish Procedures and Routines</li> </ul> <p><b>Unit 1: Processes for Scientific Investigations (5 Days: Aug.21-Aug.28)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Understanding the Processes of Scientific Investigation</li> <li>➤ Important Concepts: How Scientists Work</li> <li>● How Do Scientists Learn About The Natural World</li> <li>● Exploring Investigations</li> <li>● Safety and Tools (Label Tools)</li> <li>● Journal Set Up (Glue in Tools)</li> <li>● Set Up Daily Weather Station in Journals</li> <li>➤ Process TEKS: 5.1A</li> </ul> <p><b>Unit 2: Investigating Physical Properties of Matter (15 Days: Aug.29-Sept.24)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: The Understanding that Matter has Measurable Properties Which Determine How it is Classified</li> <li>➤ Important Concepts: Measurable, Testable, and Observable Properties</li> <li>● What Are Observable Physical Properties Of Matter</li> <li>● What Is The Difference Between Mass And Weight</li> <li>● Volume And Relative Density</li> <li>● Investigating Conductors And Insulators</li> <li>➤ Readiness TEKS: 5.5A</li> <li>➤ Supporting TEKS: 5.5B, 3.5C (Spiral TEK)</li> </ul> <p><b>Unit 3: Mixtures and Solutions (10 Days:Sept.25-Oct.8)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: The Exploration of Mixtures and Solutions</li> <li>➤ Important Concepts: Identify Different Mixtures and Solutions</li> <li>● What Are Mixtures</li> <li>● What Are Solutions</li> <li>● What Is Solubility</li> <li>➤ Readiness TEKS: 5.5A</li> <li>➤ Supporting TEKS: 5.5B, 5.5C</li> </ul> <p><b>Processing Standards: 5.1 - 5.4 Taught throughout</b></p>	<p><b>Unit 4: Investigating Force, Motion, and Energy (25 Days:Oct.15-Nov. 20)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: The Many Forms of Energy.</li> <li>➤ Important Concepts: Energy occurs in many forms and can be observed in cycles, patterns, and systems</li> <li>● What Are Forces And How Do Forces Affect Motion</li> <li>● Different Forms Of Energy Such As Thermal And Mechanical</li> <li>● How Do Electric Circuits, Conductors, And Insulators Work</li> <li>● What Are Some Properties Of Light</li> <li>● What Happens When Light Is Reflected And Refracted</li> <li>➤ Readiness TEKS: 5.6A, 5.6B, 5.6C</li> <li>➤ Supporting TEKS: 5.6D, 3.6B (Spiral TEK)</li> </ul> <p><b>Unit 5: Investigating Water, Weather The Earth and Moon (15 Days: Nov.21-Dec.19)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Recognizable Patterns in the Natural World among The Sun, Earth, and Moon</li> <li>➤ Important Concepts: Patterns, Cycles, and Celestial Objects in The Sky</li> <li>● How Does Water Move on Earth's Surface</li> <li>● What Happens During The Water Cycle</li> <li>● Differentiate Between Weather and Climate</li> <li>● Demonstrate How The Earth Spins On Its Axis</li> <li>➤ Readiness TEKS: 5.8C</li> <li>➤ Supporting TEKS: 5.8A, 5.8B, 5.8D (Spiral TEKS) 4.8A,4.8B, 4.8C, 5.8A, 4.8A, 3.8D, 4.8C</li> </ul> <p><b>Processing Standards: 5.1 - 5.4 Taught throughout</b></p>

# Elementary Science Scope & Sequence

3 <sup>rd</sup> Quarter (9 weeks) 1/07/20-03/20/20	4 <sup>th</sup> Quarter (9 weeks) 3/23/20-5/27/20
<p><b>Unit 0: SE The First Five Days (5 Days: Jan. 7-Jan.14)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Becoming Self Aware</li> <li>➤ Important Concepts: Emotional Health</li> <li>● Building Relationships</li> <li>● Social Emotional Learning</li> <li>● Self-Awareness</li> <li>● Establish Procedures and Routines</li> </ul> <p><b>Unit 6: Investigating Changes to Earth’s Surface (18 Days: Jan.15-Feb.10)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Landforms</li> <li>➤ Important Concepts: <ul style="list-style-type: none"> <li>● What Processes Shape Earth’s Surface</li> <li>● Landforms, Deltas, Canyons</li> <li>● How Does Water Change Earth’s Surface</li> <li>● Weathering, Erosion, Deposition And Fossils</li> <li>● Earth’s Natural Resources</li> </ul> </li> <li>➤ Readiness TEKS: 5.7A, 5.7B</li> <li>➤ Supporting TEKS: (Spiral TEKS) 3.7B, 4.7A, 4.7C</li> </ul> <p><b>Unit 7: Investigating Ecosystems Interactions (18 Days: Feb.11-Mar.17)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Ecological Interactions</li> <li>➤ Important Concepts: <ul style="list-style-type: none"> <li>● What Is An Ecosystem And A Food web</li> <li>● What Are The Roles of Organisms in Ecosystems</li> <li>● What Makes An Ecosystem</li> <li>● How Does Energy Move Through Ecosystems</li> <li>● What Role Do Producers, Consumers and Decomposers Play</li> <li>● How Do Environmental Changes Affect Organisms in Ecosystems</li> </ul> </li> <li>➤ Readiness TEKS: 5.9A, 5.9B</li> <li>➤ Supporting TEKS: 5.9C (Spiral TEKS) 3.9A, 3.10B</li> </ul>	<p><b>Unit 8: Investigating Inherited Physical Characteristics and Learned Behaviors (15 Days: Mar.18-Apr.7)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Adaptations and Inherited Traits and review of diverse life cycles</li> <li>➤ Important Concepts: <ul style="list-style-type: none"> <li>● Identify fossils as evidence of past living organisms</li> <li>● Life cycle of the mealworm</li> <li>● What Are Physical and Behavioral Adaptations</li> <li>● How Do Animals Grow And Reproduce</li> <li>● Differentiate Between Inherited Traits Of Plants And Animals</li> <li>● Describe Physical Characteristics of Environments And How They Support Populations</li> </ul> </li> <li>➤ Readiness TEKS: 5.10A, 5.10B</li> <li>➤ Supporting TEKS: 5.9D,(Spiral TEKS), 3.10B</li> </ul> <p><b>Unit 9: STAAR Review (15 Days:Apr. 8-Apr.30)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Preparing Students STAAR</li> <li>➤ Important Concepts:Student Will Go Through Review Plan For STAAR Success</li> <li>● Teach For Depth and Complexity for STAAR Success</li> <li>➤ Readiness TEKS: 5.5, 5.6, 5.7, 5.8, 5.9, 5.10</li> <li>➤ Supporting TEKS: 5.5BC, 5.6D, 5.8ABD, 5.9CD,</li> </ul> <p><b>Unit 10: Working as Scientists: Toward Elementary Science Fair (10 Days:May 1-May 15)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Students Will Prepare For The District Science Fair</li> <li>➤ Important Concepts: Understanding The The Scientific Method To Create A Science Project <ul style="list-style-type: none"> <li>● Getting Started</li> <li>● Doing Background Research</li> <li>● Constructing a Hypothesis</li> <li>● Testing Your Hypothesis by Doing an Experiment</li> <li>● Analyzing Your Data and Drawing a Conclusion</li> <li>● Communicating Your Results</li> </ul> </li> <li>➤ Readiness TEKS: 5.5A, 5.6(ABCD), 5.7(AB), 5.8C, 5.9 (A,B), 5.10(A,B)</li> <li>➤ Supporting TEKS: 5.9C</li> </ul> <p><b>Unit 11: Step Up To Sixth Grade (8 Days: May 15-May 28)</b></p> <ul style="list-style-type: none"> <li>➤ Big Ideas: Preparing Students For Sixth Grade Science</li> <li>➤ Important Concepts: Students will develop an understanding of the nature of matter and the role of energy transformation. Students will also deepen their understanding of scales, patterns, and properties of matter, the solar system, and ecosystem <ul style="list-style-type: none"> <li>● Elements Are Represented By A Chemical Symbol</li> </ul> </li> </ul>



CURRICULUM AND  
INSTRUCTION

## Elementary Science Scope & Sequence

Processing Standards: 5.1 - 5.4 Taught throughout

- Compare Metals, Nonmetals, and Metalloids
- Classify Rocks by Geologic Names
- Describe Movements Of Objects In Space
- Readiness TEKS: : 6.5A, 6.6A, 6.8A, 6.9A, 6.10B, 6.11A
- Supporting TEKS: 6.5B, 6.6C, 6.8B, 6.9B, 6.10ACD, 6.11C

Processing Standards: 5.1 - 5.4 Taught throughout