FOURTH GRADE FIRST NINE WEEKS – LISD Curriculum Overview

All LISD Curriculum is written by LISD teachers under the guidance of LISD Curriculum Personnel.
All LISD Curriculum is developed based on the Texas Essential Knowledge and Skills (TEKS) for each grade level.
The TEKS are located on the TEA website(http://www.tea.state.tx.us/index2.aspx?id=6148&menu_id=720&menu_id2=785).

Reading Language Arts	Social Studies
Unit 1 **Big Ideas:** ● Establish habits of readers and writers ● Set a purpose for reading and writing ● Self-select text to read ● Collect ideas for writing ● Use a process for writing ● Respond to and interact with text ● Consider an author's purpose and learn from authors ● Set goals as readers and writers **Unit 2** **Big Ideas:** ● Use thinking strategies to comprehend text ● Respond to text read, hear, or viewed ● Analyze structure and elements of fiction text ● Analyze and apply author's craft ● Plan, draft, revise, and edit personal narrative compositions **Unit 3** (continues to 2nd 9 weeks) **Big Ideas:** ● Use thinking strategies to comprehend text ● Respond to text read, hear, or viewed ● Analyze structure and elements of informational text ● Analyze and apply author's craft ● Plan, draft, revise, and edit informational/expository compositions ● Engage in research/inquiry	**Unit 1** **Big Ideas:** ● Use geographic tools to collect, analyze, and interpret data ● Describe/compare regions of Texas ● Identify how historic documents protect our freedoms and human rights **Unit 2** **Big Ideas:** ● Explain the possible origins of American Indian groups ● Understand origins, similarities, and differences of American Indian Groups ● Summarize motivations and accomplishments for European exploration

Mathematics	Science

Mathematics

Intentional Problem Solving Unit
TEKS: Process 1ABCDEFG
Big Ideas:
- Apply, represent, and communicate mathematical thinking to solve real-world problems
- Analyze mathematical relationships to make connections, develop strategies, and justify mathematical ideas and arguments

Unit 1: Base Ten Relationships (with Whole Numbers then Decimals)
TEKS: 2ABCDEFGH, 3G, 1ABCDEFG
Big Ideas:
- Apply, represent, and communicate mathematical thinking to solve real-world problems
- Analyze mathematical relationships to make connections, develop strategies, and justify mathematical ideas and arguments
- Apply the understanding of place value relationships to the four operations in order to solve real world problems
- Be skilled at reading and representing numbers in a variety of formats
- Round whole numbers and recognize place value through the billions
- Represent, compare and order decimals to the hundredths using concrete and visual models
- Relate decimals and fractions

Unit 2: Addition & Subtraction Situations (with Whole Numbers & Decimals)
TEKS: 4AG, 5A, 1ABCDEFG
Big Ideas:
- Apply, represent, and communicate mathematical thinking to solve real-world problems
- Analyze mathematical relationships to make connections, develop strategies, and justify mathematical ideas and arguments
- Be skilled at solving unfamiliar addition and subtraction situations, determine the reasonableness of solutions and justify the solutions
- Be skilled at representing problems using a strip diagram or equations with variables

Science

Matter & Energy
Unit 1: Working Like a Scientists to Observe States of Matter
TEKS: **RTC**- 4.5A **SEPs** 4.1C,D,G 4.3C **CT** 4.6A
- 4.5A identify and use patterns to explain scientific phenomena or to design solutions
- 4.6A classify and describe matter using observable physical properties, including physical state (solid, liquid, gas)
- 4.1C demonstrate safe practices and the use of safety equipment during classroom and field investigations as outlined in Texas Education Agency-approved safety standards
- 4.1D use tools,science notebook
- 4.1G develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.
- 4.3C listen actively to others' explanations to identify relevant evidence and engage respectfully in scientific discussion.

Unit 2: Using Tools to Classify Matter
TEKS: **RTC**- 4.5A **SEPs** 4.1D,E,F **CT** 4.6A
- 4.5A identify and use patterns to explain scientific phenomena or to design solution
- 4.6A classify and describe matter using observable physical properties, including temperature, mass, magnetism and relative density (the ability to sink or float in water)
- 4.1D use tools, including Celsius thermometers; balances; graduated cylinders; beakers; magnets; notebooks;
- 4.1E collect observations and measurements as evidence
- 4.1F construct appropriate graphic organizers used to collect data, including tables, bar graphs, line graphs, tree maps, concept maps, Venn diagrams, flow charts or sequence maps, and input-output tables that show cause and effect

Unit 3: Conservation of Matter with Mixtures
TEKS: **RTC**- 4.5E **SEPs** 4.1C,D,F 4.2C **CT** 4.6B,C
- (4.5E) investigate how energy flows and matter cycles through systems and how matter is conserved
- (4.6B) investigate and compare a variety of mixtures, including solutions that are composed of liquids in liquids and solids in liquids
- (4.6C) demonstrate that matter is conserved when mixtures such as soil and water or oil and water are formed.
- (4.1C) demonstrate safe practices and the use of safety equipment during classroom and field investigations as outlined in Texas Education Agency-approved safety standards
- (4.1D) use tools, including hand lenses; digital scales; balances; graduated cylinders; beakers;

	notebooks; sieves; materials to support digital data collection such as computers, tablets, and cameras, to observe, measure, test, and analyze information;
	● (4.1F) construct appropriate graphic organizers used to collect data, including tables, bar graphs, line graphs, tree maps, concept maps, Venn diagrams, flow charts or sequence maps, and input-output tables that show cause and effect
	● (4.2C) use mathematical calculations to compare patterns and relationships
	Unit 4: Transfer of Energy TEKS: **RTC**- 4.5E **SEPs** 4.1A,E 4.2B **CT** 4.8A ● 4.5E investigate how energy flows and matter cycles through systems and how matter is conserved ● 4.8A investigate and identify the transfer of energy by objects in motion, waves in water, and sound; ● 4.1A ask questions and define problems based on observations or information from text, phenomena, models, or investigations; ● 4.1E collect observations and measurements as evidence ● 4.2B analyze data by identifying any significant features, patterns, or sources of error;