



# Mesquite ISD Curriculum Sequence

## Sixth Grade - 4th Six Weeks

### English Language Arts/Reading

**Comprehension**  
 Universal screener in reading  
 Make connections and draw inferences and conclusions supported by text evidence  
 Infer the theme of a work

Determine the author's purpose  
 Follow instructions to perform procedures  
 Summarize the main ideas and details  
 Compare/contrast a play with a film with the same story line.  
 Understand the characteristics of myths, tall tales, and legends.

**Vocabulary**  
 Use word structure including Latin and Greek roots to determine word meaning.  
 Determine word meaning using context clues.

**Reading Fluency**  
 Develop fluency in reading using phrasing, reader's theater, quick word charts and choral reading. Practice reading independently for longer periods of time to build reading stamina.

**Writing**  
 Write personal narratives, imaginative stories, and write letters.  
 Use the steps of the writing process and the six traits of good writing.

**Spelling**  
 Add suffixes and prefixes to words, including –ion, -ent, -ence, -ant, -ance; spell related word forms that change pronunciation with part of speech.

**Conventions of Writing**  
 Understand and use punctuation correctly with possessives, quotations, titles. Combine sentences, use correct verb agreement in simple and compound sentences, combine sentences with subordinate conjunctions. Use pronouns correctly.

### Math

Apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates. (6.4B)

Represent ratios and percents with concrete models, fractions, and decimals. (6.4E)

Represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers. (6.4F)

Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money. (6.4G)

Convert units within a measurement system, including the use of proportions and unit rates. (6.4H)

Represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions. (6.5A)

Solve real-world problems involving percent to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models. (6.5B)

Use equivalent fractions, decimals, and percents to show equal parts of the same whole. (6.5C)

Identify independent and dependent quantities from tables and graphs. (6.6A)

Write an equation that represents the relationship between independent and dependent quantities from a table. (6.6B)

Represent a given situation using verbal descriptions, tables, graphs, and equations in the form  $y = kx$  or  $y = x + b$ . (6.6C)

Write one-variable, one-step equations and inequalities to represent constraints or conditions within problems. (6.9A)

Represent solutions for one-variable, one-step equations and inequalities on number lines. (6.9B)

Write corresponding real-world problems given one-variable, one-step equations or inequalities. (6.9C)

Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts. (6.10A)

Determine if the given value(s) make(s) one-variable, one-step equations or inequalities true. (6.10B)

Graph points in all four quadrants using ordered pairs of rational numbers. (6.11A)

### Science

**Motion & Force**

*Speed, Distance, & Motion (6.8C, 6.8D):* Students will calculate average speed using distance and time measurements. Students will measure and graph changes in motion.

*Motion & Force (6.8B, 6.8D):* Students will identify and describe the changes in position, direction, and speed of an object when acted upon by unbalanced forces. Students will measure and graph changes in motion.

*Ramps (6.8E):* Students will investigate how inclined planes can be used to change the amount of force to move an object.

**Energy**

*Potential & Kinetic Energy (6.8A):* Students will compare and contrast potential and kinetic energy

### Social Studies

Students will identify major geographic features.  
 Students will trace the history of a region.  
 Students will describe common traits of culture.  
 Students will identify major geographic features.  
 Students will evaluate the social and political contributions of societies.  
 Students will describe common traits of culture.  
 Students will analyze the experiences of diverse groups.  
 Students will identify and locate physical features.  
 Students will review the record of human rights abuses.  
 Students will identify how ideas spread.  
 Students will identify ways people have modified the physical environment.  
 Students will identify physical features of a region.  
 Students will trace the history of a region.



# Mesquite ISD Curriculum Sequence

## Sixth Grade - 5th Six Weeks

### English Language Arts/Reading

**Comprehension**  
 Make connections and draw inferences and conclusions supported by text evidence  
 Infer the theme of a work of fiction  
 Summarize the main idea and details  
 Analyze how the organization of a text influences the relationship of ideas  
 Understand how authors use figurative language to enhance meaning  
 Summarize plot development

**Vocabulary**  
 Use word structure including Latin and Greek roots to determine word meaning.  
 Determine word meaning using context clues.  
 Use a dictionary to determine word information

**Reading Fluency**  
 Develop fluency in reading using phrasing, reader's theater, quick word charts and choral reading. Practice reading independently for longer periods of time to build reading stamina.

**Writing**  
 Write personal narratives and write in expository modes. Use the steps of the writing process and the six traits of good writing.

**Spelling**  
 Spell words correctly that have Greek prefixes, adding suffixes -able and -ible, and doubling consonants with accented syllables

**Conventions of Writing**  
 Understand and use punctuation and capitalization correctly, understand prepositions and prepositional phrases, use a variety of complete sentences effectively (simple, compound, complex).

### Math

Compare two rules verbally, numerically, graphically, and symbolically in the form of  $y=ax$  or  $y=x+a$  in order to differentiate between additive and multiplicative relationships. (6.4A)

Identify independent and dependent quantities from tables and graphs. (6.6A)

Write an equation that represents the relationship between independent and dependent quantities from a table. (6.6B)

Represent a given situation using verbal descriptions, tables, graphs, and equations in the form  $y = kx$  or  $y = x + b$ . (6.6C)

Extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle. (6.8A)

Model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes. (6.8B)

Write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers. (6.8C)

Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers. (6.8D)

Represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots. (6.12A)

Use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution. (6.12B)

Summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution. (6.12C)

Summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution. (6.12D)

Interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots. (6.13A)

Distinguish between situations that yield data with and without variability. (6.13B)

**Personal Financial Literacy TEKS 6.14A, 6.14B, 6.14C, 6.14D, 6.14E, 6.14F, 6.14G, 6.14H**

### Science

#### Energy (Continued)

**Energy Conversions (6.9C):** Students will demonstrate energy transformations such as energy in a flashlight battery changes from chemical energy to electrical energy to light energy.

**Heat Transfer (6.9A, 6.9B):** Students will investigate methods of thermal energy transfer, including conduction, convection, and radiation. Students will verify through investigations that thermal energy moves in a predictable pattern from warmer to cooler until all the substances attain the same temperature such as an ice cube melting.

#### Fossil Fuels and Alternative Energy

**Fossil Fuels and Alternative Energy (6.7A):** Students will research and discuss the advantages and disadvantages of using coal, oil, natural gas, nuclear power, biomass, wind, hydropower, geothermal, and solar resources.

#### Earth Science

**Layers of the Earth (6.10A):** Students will build a model to illustrate the compositional and mechanical layers of Earth, including the inner core, outer core, mantle, crust, asthenosphere, and lithosphere.

**Plate Tectonics (6.10C, 6.10D):** Students will identify the major tectonic plates, including Eurasian, African, Indo-Australian, Pacific, North American, and South American. Students will describe how plate tectonics causes major geological events such as ocean basin formation, earthquakes, volcanic eruptions, and mountain building.

### Social Studies

Students will give examples of scientific discoveries and innovations.  
 Students will describe how the factors of production influence economies of societies.  
 Students will identify problems and issues when factors of production are in short supply.  
 Students will identify geographic factors responsible for population patterns.  
 Students will trace the history of societies [Egypt].  
 Students will evaluate the contributions of individuals and groups.  
 Students will identify and describe conflict between cultures.  
 Students will identify and explain geographic factors responsible for the location of economic activities.  
 Students will review the record of human rights abuses.  
 Students will describe levels of economic development.  
 Students will trace the history of a region.  
 Students will describe traits the define cultures.  
 Students will analyze ways people have modified the environment.  
 Students will explain ways human migration influences a place.  
 Students will describe the relationship between societies and art.  
 Students will trace the history of a region.  
 Students will describe levels of economic development.



# Mesquite ISD Curriculum Sequence

## Sixth Grade - 6th Six Weeks

English Language Arts/Reading	Math	Science	Social Studies
<p>Comprehension</p> <p>STAAR Reading test</p> <p>Summarize plot development Make connections and draw inferences and conclusions supported by text evidence Infer the theme of a work of fiction Explain how authors create meaning through stylistic elements and figurative language Analyze how sound effects and figurative language contribute to the meaning of a poem.</p> <p>Vocabulary Use word structure including Latin and Greek roots to determine word meaning. Determine word meaning using context clues.</p> <p>Reading Fluency Develop fluency in reading using phrasing, reader's theater, quick word charts and choral reading. Practice reading independently for longer periods of time to build reading stamina.</p> <p>Writing Write personal narratives. Also write in response to literary texts and write poetry in various forms. Use the writing process and the six traits of good writing.</p> <p>Spelling Spell words correctly using prefixes, suffixes and Greek and Latin roots.</p> <p>Conventions of Writing Understand sentences and avoid fragments and run-ons. Revise conventions in poetry.</p>	<p><b>Mathematical Process Standards</b> <b>6.1A, 6.1B, 6.1C, 6.1D, 6.1E, 6.1F, 6.1G</b></p> <p>STAAR Review</p> <p>Area of Circles Circumference</p>	<p><b><u>Earth Science (Continued)</u></b></p> <p><i>Plate Tectonics (6.10C, 6.10D):</i> Students will identify the major tectonic plates, including Eurasian, African, Indo-Australian, Pacific, North American, and South American. Students will describe how plate tectonics causes major geological events such as ocean basin formation, earthquakes, volcanic eruptions, and mountain building.</p> <p><i>Rock Cycle (6.10B):</i> Students will classify rocks as metamorphic, igneous, or sedimentary by the processes of their formation.</p> <p><b><u>Space</u></b></p> <p><i>Components of the Universe (6.11A, 6.11B):</i> Students will describe the physical properties, locations, and movements of the Sun, planets, moons, meteors, asteroids, and comets. Students will understand that gravity is the force that governs the motions of our solar system.</p> <p><i>Space Exploration (6.11C):</i> Students will describe the history and future of space exploration, including the types of equipment and transportation needed for space travel.</p>	<p>Students will trace the history of a region. Students will identify the physical and human features of a region. Students will describe the cultural traits of a region. Students will economic development of a region. Students will explain how migration influences a region. Students will describe the physical and human features of a region. Students will trace the history of a region. Students will analyze the experiences and contributions of groups. Students will describe the traits of cultures. Students will identify scientific discoveries and innovations. Students will identify and describe physical and human features of regions. Students will describe the effects of the environment. Students will explain the effects of migration. Students will identify the location of renewable and nonrenewable resources. Students will explain the impact of scarcity of resources.</p>