

Conroe ISD Parent Curriculum Guide

Prek - 8th Grade



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Introduction

Conroe Independent School District offers a comprehensive educational program for all students. In addition to the core classes of English and reading, social studies, science, and mathematics, schools offer foreign language, art, music, career and technology classes and other electives.

Conroe also serves students in a variety of diverse programs such as Gifted and Talented, Bilingual and English as a Second Language classes, and Special Education. Students are identified for these special programs through eligibility requirements, and/or parent and teacher referrals.

All campuses offer Art and Music taught by degreed and certified specialists on a rotation basis. This rotation varies according to campus size/staffing and schedules. Students have competitive opportunities through Art and performance opportunities through Music. Intermediate grade students can choose from Band, Orchestra, Choir, Art, and some campuses offer 5th Grade General Music.

In 7th grade and beyond, parents should refer to the Program of Studies on the CISD Website, as the choices are extensive and campus dependent.

The following information provides a summary at each grade level for each of the following subjects: English and reading, mathematics, social studies, and science for grades pre-kindergarten through eight. This summary provides the information parents need to be an integral part of the educational program for their children by knowing what is expected at each grade level.

Please use this information as a guide to assist your child as he/she progresses through each grade level.

Pre-Kindergarten

Pre-Kindergarten students will:

Social and Emotional Development

- Self regulation: regulate own behavior with occasional reminders or assistance from adults.
- Emotional control: able to manage intensity of emotions with some guidance from adults.
- Communication skills: use effective verbal and nonverbal communication skills with adults and peers.
- Role in the community: assume various roles and responsibilities as part of the classroom community.

Language Arts

- Blend syllables into words.
- Segment syllable from a word.
- Identifies rhyming words.
- Blend onsets, rimes, and phonemes (Only blending phonemes applies for bilingual).
- Name 20 upper or lower case letters.
- Produce at least 20 distinct letter sounds.
- Retell or re-enacts a story after it is read aloud.
- Describe information related to a nonfiction (factual) book.
- Distinguish between elements of print including letters, words, and pictures.
- Independently write to communicate his/her ideas using and verbally share meaning.
- Discuss, contribute ideas, interact, and contribute ideas and provide suggestions to revise and edit class-made drafts.
- Forms letters and letter strings as a way to communicate.

Math

- Use words to count by memory from 1 to 30.
- Count each object one to one from 1 to 10.
- Count up to 10 items and indicate how many items were counted.
- Orally identify objects represented from 1 to 6.
- Recognize numerals 0 to 10.
- Join up to 5.
- Separate within 0 to 5.
- Sort objects.

Science

- Observe, investigate, describe, and discuss characteristics of common objects.
- Observe, investigate, describe, and discuss position and motion of objects.
- Observe, investigate, describe, and discuss sources of energy including light, heat, and electricity.
- Observe, investigate, describe, and discuss the characteristics of organisms.
- Observe, describe, and discuss the life cycles of organisms.
- Observe, investigate, describe, and discuss the relationship of organisms in their environments.
- Identify, observe, describe, and discuss objects in the sky.
- Observe and describe what happens during changes in the earth and sky.

Social Studies

- Make connections to self and the world around them.

Technology

- Uses, operates, and names a variety of digital tools.
- Uses digital learning applications and programs to create digital products and express their own ideas.

Physical Development

- Demonstrates coordination and balance.
- Shows small-muscle strength and control.
- Practices good habits of personal safety, health, hygiene, nutrition, and exercise.

Fine Arts

- Uses art as a form of creative self-expression.
- Participates in classroom music and art activities.
- Recreates stories through dramatic play.

Kindergarten

Kindergarten students will:

Language Arts

- Orally identifies and produces rhymes.
- Identify syllables in spoken words.
- Blend onsets, rimes, and phonemes to form simple words.
- Segment one-syllable words.
- Identify and match the common sounds that letters represent.
- Decode words by using letter-sound relationships.
- Identify and read high-frequency words.
- Demonstrate and apply spelling knowledge.
- Demonstrate concepts about print (letter, word and sentence boundaries).
- Identify uppercase and lowercase letters.
- Form uppercase and lowercase letters.
- Retell texts.
- Identify and describe the main character(s) in literary texts.
- Recognize titles and simple graphics to gain information in informational texts.
- Generate ideas for writing.
- Develop drafts.

Math

- Understand counting and cardinality to at least 20.
- Apply the principles of counting to make the connection between numbers and quantities to at least 20.
- Compare sets of objects to at least 20.
- Compose and decompose numbers up to 10 with objects and pictures.
- Understand joining as addition and separating as subtraction.
- Use meanings of numbers to create strategies for solving problems and responding to practical situations involving addition and subtraction.
- Compare objects by measurable attributes.
- Recognize attributes of two- and three-dimensional geometric figures.
- Construct and use graphs of real objects or pictures to answer questions.
- Learn about money received as income or gifts.
- Understand the value of wants and needs to effectively prepare for financial security.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that objects have physical properties that determine how they are described and classified.
- Knows that forces cause changes in motion and position in everyday life.
- Knows that energy is everywhere and can be observed in everyday life.
- Knows that there are recognizable patterns in the natural world and among objects in the sky.
- Knows that the natural world includes earth materials and systems that can be observed.
- Knows that earth materials are important to everyday life.
- Knows that plants and animals depend on the environment to meet their basic needs for survival.
- Knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments.

Social Studies

- Identify holidays and historical figures.
- Understand the concepts of location and physical/human characteristics of place.
- Understand the difference between human needs and wants, how they are met and the value of jobs.
- Understand the purpose of rules and role of authority figures and responsibility of citizens.
- Understand the similarities and differences among individuals.

Technology

- Use creative thinking and innovative processes to construct knowledge and develop digital products.
- Collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- Acquire and evaluate digital content to guide inquiry.

- Apply critical-thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources.
- Practice safe, responsible, legal, and ethical behavior while using digital tools and resources.
- Demonstrate knowledge and appropriate use of technology systems, concepts, and operations.

Physical Development

- Demonstrate emerging capability in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (hopping, galloping, running, sliding, skipping, walking, bending, stretching, twisting, curling).
- Demonstrate emerging capability in developmentally appropriate manipulative skills (self-toss, underhand throw, one-hand dribble, kick stationary ball).
- Demonstrate emerging capability in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (chasing, fleeing, dodging).
- Demonstrate emerging capability in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Use art and music as a form of expression through understanding, creation, display, and performance.
- Understand the impact of the self and the surrounding culture on the art and music making process.
- Respond to, and analyze, art and music created by self and others.
- Develop a life-long love for art and music.

First Grade

First grade students will:

Language Arts

- Orally produce a series of rhyming words.
- Distinguish between long and short vowels.
- Manipulate phonemes within base words.
- Decode words by applying phonetic knowledge.
- Identify and read high-frequency words.
- Retell texts.
- Describe the main character(s) and the reason(s) for their actions.
- Describe plot elements.
- Recognize characteristics and structures of informational text.
- Discuss the author's purpose for writing texts.
- Plan a draft by generating ideas.
- Develop drafts in oral, pictorial, or written form.

Math

- Apply place value to numbers up to 120.
- Use relationships within the numeration system to understand the sequential order of counting numbers and their relative magnitude.
- Solve problems with addition and subtraction up to 20.
- Extend beyond joining and separating problem situations to comparing and combining.
- Use efficient, accurate, and generalizable methods to perform operations.
- Use properties of operations and the relationship between addition and subtraction to solve problems.
- Compose and decompose two-dimensional shapes and three-dimensional solids.
- Name, identify, and describe basic two-dimensional shapes and three-dimensional solids.
- Name and identify U.S. coins by their value and describe the relationships among them.
- Begin counting sets of coins with pennies, nickels, and dimes.
- Begin to understand fair shares and recognize examples and nonexamples of halves and fourths.
- Select and use units to describe length and time.
- Collect, sort, and organize data with tally marks, t-charts, picture graphs, and bar-type graphs.
- Define money as income as a means of obtaining goods and services while distinguishing between spending and saving to effectively prepare for financial security.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that objects have physical properties that determine how they are described, classified and used.
- Knows that forces cause changes in motion and position in everyday life.
- Knows that energy is everywhere and can be observed in everyday life.
- Knows that the natural world has recognizable patterns in the natural world and among objects in the sky.
- Knows that the natural world includes earth materials that can be observed in systems and processes.
- Knows that earth materials and products made from these materials are important to everyday life.
- Describes patterns, cycles, systems, and relationships within environments.
- Knows that organisms undergo similar life processes and have structures that function to help them survive within their environments.

Social Studies

- Understand the origin of customs, holidays, and celebrations.
- Understand how historical figures helped shape the state and nation.
- Understand the relative location of places.
- Understand physical and human characteristics of a place to better understand their community and the world around them.
- Understand how families meet basic human needs.
- Understand the concept of goods and services.
- Understand the purpose of rules and laws.
- Understand the role of authority figures and public officials.
- Understand characteristics of good citizenship as exemplified by historical figures and other individuals.

- Understand important symbols, customs, and celebrations that represent American beliefs and principles that contribute to our national identity.
- Understand the importance of family and community beliefs, language, and traditions.

Technology

- Use creative thinking and innovative processes to construct knowledge and develop digital products.
- Collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- Acquire and evaluate digital content to guide inquiry.
- Apply critical-thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources.
- Practice safe, responsible, legal, and ethical behavior while using digital tools and resources.
- Demonstrate knowledge and appropriate use of technology systems, concepts, and operations.

Physical Development

- Demonstrate competency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (hopping, galloping, running, sliding, skipping, walking, bending, stretching, twisting, curling, swaying).
- Demonstrate competency in developmentally appropriate manipulative skills (self-toss and underhand throw while stepping with opposite foot, catching, one-hand continuous dribble, approach and kick a stationary ball).
- Demonstrate competency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (traveling over, under, around and through).
- Demonstrate competency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Use art and music as a form of expression through understanding, creation, display, and performance.
- Understand the impact of the self and the surrounding culture on the art and music making process.
- Respond to, and analyze, art and music created by self and others.
- Develop a life-long love for art and music.

Second Grade

Second grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Students speak clearly and to the point, using conventions of language.
- Use a range of reading skills with greater complexity in independent reading to understand the author's message. These skills will include establishing purpose, asking literal questions, monitoring comprehension, making inferences, retelling, and making connections.
- Understand, make inferences, and draw conclusions about varied genres including poetry, fiction, expository, and procedural texts.
- Use graphophonic knowledge to recognize common spelling patterns and spell words with common patterns and rules.
- Read 300 high frequency words with accuracy and fluency.
- Use the writing process to compose text (personal experiences, expository, procedural, and persuasive) while applying the conventions of academic language.
- Ask open-ended research and develop a plan for answering them.

Math

- Develop an understanding of the base-10 place value system.
- Make comparisons with the place value system up to 1,200.
- Recognize and represent fractional units and communicate how they are used to name parts of a whole identifying examples and nonexamples of halves, fourths, and eighths.
- Recall basic facts to add and subtract within 20 with automaticity.
- Solve problems with addition and subtraction within 1,000 using mental strategies and algorithms based on knowledge of place value and properties of operation.
- Identify situations in which addition and subtraction are useful to solve problems with multi-digit numbers.
- Determine the value of a set of coins up to one dollar.
- Build foundations for multiplication using relationships between skip counting and equal groups to represent the addition or subtraction of equivalent sets.
- Identify and apply number patterns within the properties of numbers and operations to describe number relationships algebraically.
- Analyze attributes of two-dimensional shapes and three-dimensional solids to develop generalizations about their properties.
- Select and use units to describe length, area, and time.
- Organize data using bar graphs and pictographs to make it useful for interpreting information and solving problems.
- Learn the importance of managing one's financial resources effectively for lifetime financial security.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that matter has physical properties that determine how it is described, classified, and used.
- Knows that forces cause changes in motion and position in everyday life.
- Knows that energy is everywhere and can be observed in everyday life.
- Knows that the natural world has recognizable patterns in the natural world and among objects in the sky.
- Knows that the natural world includes earth materials that can be observed in systems and processes.
- Knows that earth materials and products made from these materials are important to everyday life.
- Describes patterns, cycles, systems, and relationships within environments.
- Knows that organisms undergo similar life processes and have structures that function to help them survive within their environments.

Social Studies

- Study their local community by examining the impact of significant individuals and events on the history of the community as well as on the state and nation.
- Study functions of government as well as services provided by local government.
- Acquire knowledge of important customs, symbols, and celebrations that represent American beliefs and principles.
- Understand citizenship; time and chronology; location; significant individuals and events.
- Identify and explain the importance of work; the concept of producers and consumers.
- Identify and explain how technological innovations have changed transportation and communication.

Technology

- Use creative thinking and innovative processes to construct knowledge and develop digital products.
- Collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- Acquire and evaluate digital content to guide inquiry.
- Apply critical-thinking skills to solve problems, guide research, and evaluate projects using digital tools and resources.
- Practice safe, responsible, legal, and ethical behavior while using digital tools and resources.
- Demonstrate knowledge and appropriate use of technology systems, concepts, and operations.

Physical Development

- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (hopping, galloping, running, sliding, skipping, jumping and landing, bending, stretching, twisting, curling, pushing, pulling, swaying).
- Demonstrate proficiency in developmentally appropriate manipulative skills (underhand and overhand throw with opposite foot forward, catching accurately, hand dribbling while walking, kick a moving ball using an approach, volleying).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (combine speed and direction).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Use art and music as a form of expression through understanding, creation, display, and performance.
- Understand the impact of the self and the surrounding culture on the art and music making process.
- Respond to, and analyze, art and music created by self and others.
- Develop a life-long love for art and music.

Third Grade

Third grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Speak clearly and to the point, using conventions of language.
- Use a range of reading skills with greater complexity in independent reading to understand the author's message. These skills will include establishing purpose; asking literal, interpretive, and evaluative questions; monitoring comprehension; making inferences; summarizing; and making connections between literacy and informational texts.
- Understand, make inferences, and draw conclusions about varied genres including poetry, fiction, expository, and procedural texts.
- Use knowledge of letter sounds, word parts, word segmentation, and syllabication to spell words with more advanced patterns and rules.
- Write legibly in cursive script with spacing between words in a sentence.
- Use the writing process to compose text (personal experiences, procedural, and persuasive) while applying the conventions of academic language.
- Ask open-ended research questions and develop a plan for answering them.

Math

- Represent and compare whole numbers and understand the relationships related to place value up to 100,000.
- Describe the mathematical relationships found in the base-10 place value system.
- Represent fractions greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8.
- Compose and decompose fractions with a numerator greater than zero and less than or equal to the denominator.
- Represent and explain why two fractions are equivalent using concrete/pictorial models, number lines, and numerical representations.
- Compare two fractions having the same denominator in problems by reasoning about their size and justifying a conclusion.
- Solve with fluency one-step and two-step problems involving addition and subtraction within 1,000 using multiple strategies.
- Determine the value of a collection of coins and bills.
- Represent multiplication facts using a variety of approaches such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line, and skip counting.
- Use a variety of strategies to multiply two-digit by one-digit numbers.
- Determine a quotient using the relationship between multiplication and division by connection partitioning into equal shares or a set of objects shared equally.
- Solve one-step and two-step problems involving multiplication and division within 100 using a variety of strategies.
- Analyze attributes of two-dimensional and three-dimensional geometric figures to develop generalizations about their properties.
- Solve problems by collecting, organizing, displaying, and interpreting data.
- Learn to manage one's financial resources effectively for lifetime financial security by understanding capital/labor income, scarcity of resources, and various savings plans.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used.
- Knows the nature of forces and the patterns of their interactions.
- Knows that energy is everywhere and can be observed in cycles, patterns, and systems.
- Knows there are recognizable objects and patterns in Earth's solar system.
- Knows that there are recognizable processes that change Earth over time.
- Understands how natural resources are important and can be managed.
- Describes patterns, cycles, systems, and relationships within environments.
- Knows that organisms undergo similar life processes and have structures that function to help them survive within their environments.

Social Studies

- Study how individuals have changed their communities and the world.
- Expand their knowledge through the identification of people who made a difference, influenced public policy and decision-making, and participated in resolving important issues.
- Identify reasons people have formed communities, including the need for security and laws, religious freedom, and material well-being.

- Understand how the relationships between individuals have changed or adapted to their environment.
- Identify location, distance, and direction on maps and globes.
- Describe cultural and scientific contributions of individuals who have shaped communities.
- Understand the concept of earning, spending, saving, and donating money.
- Create a simple budget that allocates money for spending and saving.
- Understand supply, demand, price for goods and services, and examples of scarcity.
- Understand the functions of local government and citizenship.
- Identify the purposes of the Declaration of Independence and the U.S. Constitution, including the Bill of Rights.
- Describe the concept of “consent of the governed.”
- Identify characteristics of good citizenship, including truthfulness, justice, equality, respect for oneself and others, responsibility in daily life, and participation in government by educating oneself about the issues, respectfully holding public officials to their word, and voting.
- Identify examples of nonprofit and/or civic organizations such as the Red Cross and explain how they serve the common good.
- Understand ethnic and/or cultural celebrations in the local community and other communities.
- Understand the role of heroes in shaping the culture of communities, the state, and the nation.
- Understand the importance of writers and artists to the cultural heritage of communities.
- Understand technology as it affects life in communities.

Technology

- Use creative thinking and innovative processes to construct knowledge and develop digital products.
- Collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- Acquire and evaluate digital content for relevance and appropriateness.
- Research and evaluate projects using digital tools and resources.
- Practice safe, responsible, legal, and ethical behavior while using digital tools and resources.
- Demonstrate knowledge and appropriate use of technology systems, concepts, and operations.

Physical Development

- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (hopping, galloping, running, sliding, skipping, leaping, jumping and landing from different heights, bending, stretching, twisting, curling, pushing, pulling, swaying).
- Demonstrate proficiency in developmentally appropriate manipulative skills (underhand and overhand throw with accuracy, catching accurately, hand dribbling while slowly jogging, kick a ball using a running approach, correct technique in volleying).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (combine speed, direction, and force; combine pathways and levels).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Use art and music as a form of expression through understanding, creation, display, and performance.
- Understand the impact of the self and the surrounding culture on the art and music making process.
- Respond to, and analyze, art and music created by self and others.
- Develop a life-long love for art and music.

Fourth Grade

Fourth grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Speak clearly and to the point using conventions of language.
- Use a range of reading skills with greater complexity in both assigned and independent reading to understand the author's message. These skills will include establishing purpose; asking literal, interpretive, and evaluative questions; monitoring comprehension; making inferences; summarizing; and making connections between literary and informational texts.
- Understand, make inferences, and draw conclusions about varied genres including poetry, fiction, expository, and procedural texts.
- Spell words with more advanced patterns and rules.
- Write legibly by selecting cursive script or manuscript printing as appropriate.
- Use the writing process to compose text (personal experiences, procedural, and persuasive) while applying the conventions of academic language.
- Ask open-ended research questions and develop a plan of answering them: determine, locate, and explore the full range of relevant sources addressing that research question; evaluate and synthesize collected information.

Math

- Represent, compare, and order whole numbers and decimals and understand relationships related to place value from hundredths up to 1,000,000,000.
- Decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations.
- Determine if two fractions are equivalent.
- Compare fractions with different numerators and different denominators.
- Add and subtract fractions with equal denominators.
- Represent fractions and decimals to hundredths on a number line.
- Use strategies and methods for whole number computations and decimal sums and differences to solve problems with efficiency and accuracy.
- Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a one-digit number and to multiply a two-digit number by a two-digit number.
- Represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence.
- Develop algebraic concepts of expressions and equations.
- Analyze geometric attributes in order to develop generalizations about their properties.
- Solve problems involving angles less than or equal to 180 degrees.
- Select appropriate customary and metric units, strategies, and tools to solve problems involving measurement.
- Solve problems by collecting, organizing, displaying, and interpreting data.
- Learn to manage one's financial resources effectively for lifetime financial security by understanding variable expenses, profit, and savings options.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used.
- Knows the nature of forces and the patterns of their interactions.
- Knows that energy is everywhere and can be observed in cycles, patterns, and systems.
- Recognizes patterns among the Sun, Earth, and Moon system and their effects.
- Knows that there are processes on Earth that create patterns of change.
- Understands how natural resources are important and can be managed.
- Describes patterns, cycles, systems, and relationships within environments.
- Knows that organisms undergo similar life processes and have structures that function to help them survive within their environments.

Social Studies

- Study the history of Texas from the early beginnings to the present within the context of influences of the Western Hemisphere.
- Discuss important issues, events, and individuals of the 19th and 20th centuries.

- Understand the regions in Texas and the Western Hemisphere and how humans adapt to variations in the physical environment that result from human activity and from physical features.
- Understand the concept of an economic system including location, distribution, and patterns of economy.
- Describe the development of the free enterprise system in Texas such as the growth of cash crops by early colonists and the railroad boom.
- Identify the purposes and explain the importance of the Texas Declaration of Independence and the Texas Constitution.
- Explain the basic functions of the three branches of government according to the Texas Constitution.
- Understand early settlement in Texas and how people organized governments in different ways during the early development of Texas.
- Identify the intent, meaning, and importance of the Declaration of Independence, the U.S. Constitution, and the Bill of Rights.
- Understand the important customs, symbols, and celebrations of Texas including the Pledge to the Texas Flag, Texas Independence Day, Juneteenth, The San Jacinto Monument, and the Alamo.
- Explain the importance of active individual participation in the democratic process including volunteering, voting, and how to contact elected leaders.
- Identify leaders in state, local, and national governments, including the governor, local members of the Texas Legislature, the local mayor, U.S. senators, local U.S. representatives, and Texans who have been president of the United States.
- Understand the contribution of people of various racial, ethnic, and religious groups to Texas culture.
- Describe how scientific discoveries and innovation such as in aerospace, agriculture, energy, and technology have benefited individuals, businesses, and society in Texas.

Technology

- Use creative thinking and innovative processes to construct knowledge and develop digital products.
- Collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- Acquire and evaluate digital content for relevance and appropriateness.
- Research and evaluate projects using digital tools and resources.
- Practice safe, responsible, legal, and ethical behavior while using digital tools and resources.
- Demonstrate knowledge and appropriate use of technology systems, concepts, and operations.

Physical Development

- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (hopping, galloping, running, sliding, skipping, leaping, jumping and landing from different heights, bending, stretching, twisting, curling, pushing, pulling, swaying, transferring body weight).
- Demonstrate proficiency in developmentally appropriate manipulative skills in a dynamic environment (underhand and overhand throw with accuracy, catching accurately, hand dribbling while slowly jogging, kicking a ball using a running approach, correct technique in volleying).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (combine speed, direction, and force; combine pathways and levels).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Use art and music as a form of expression through understanding, creation, display, and performance.
- Understand the impact of the self and the surrounding culture on the art and music making process.
- Respond to, and analyze, art and music created by self and others.
- Develop a life-long love for art and music.

Fifth grade

Fifth grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Speak clearly and to the point, using conventions of language.
- Use a range of reading skills with greater complexity in both assigned and independent reading to understand the author's message. These skills will include establishing purpose; asking literal, interpretive, and evaluative questions; monitoring comprehension; making inferences; summarizing; and making connections between literary and informational texts.
- Understand, make inferences, and draw conclusions about varied genres including poetry, fiction, expository, and procedural texts.
- Spell words with more advanced patterns and rules.
- Spell words with Greek roots and suffixes as well as Latin roots and derived suffixes.
- Use the writing process to compose text (personal experiences, procedural, and persuasive) while applying the conventions of academic language.
- Ask open-ended research questions and develop a plan of answering them, determine, locate, and explore the full range of relevant sources addressing that research question, systematically record information, evaluate and synthesize collected information.
- Organize and present ideas and information according to the purpose of the research and audience.
- Synthesize the research into a written or oral presentation.

Math

- Represent, compare, and order positive rational numbers and understand relationships as related to place value.
- Use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.
- Estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division.
- Solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm.
- Solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers.
- Represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations.
- Divide whole numbers by unit fractions and unit fractions by whole numbers.
- Develop concepts of expressions and equations.
- Identify prime and composite numbers.
- Represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity.
- Use concrete objects and pictorial models to develop the formulas for the volume of a rectangular prism, including the special form for a cube ($V = l \times w \times h$, $V = s \times s \times s$, and $V = Bh$).
- Classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties.
- Understand, recognize, and quantify volume.
- Select appropriate units, strategies, and tools to solve problems involving measurement.
- Solve problems by collecting, organizing, displaying, and interpreting data.
- Learn to manage one's financial resources effectively for lifetime financial security by understanding taxes, difference between gross and net income, different modes of payment, and establishing and maintaining a budget.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used.
- Knows the nature of forces and the patterns of their interactions.
- Knows that energy is everywhere and can be observed in cycles, patterns, and systems.
- Recognizes patterns among the Sun, Earth, and Moon system and their effects.
- Knows that there are processes on Earth that create patterns of change.
- Understands how natural resources are important and can be managed.
- Describes patterns, cycles, systems, and relationships within environments.
- Knows that organisms undergo similar life processes and have structures that function to help them survive within their environments.

Social Studies

- Learn about the history of the United States from its early beginnings to the present with a focus on colonial times through the 20th century.
- Explain when, where, and why groups of people explored, colonized, and settled in the United States, including the search for religious freedom and economic gain.
- Understand the significant individuals who contributed to the creation of the U.S. Constitution and the government it established; and identify the contributions of Founding Fathers James Madison and George Mason who helped create the U.S. Constitution.
- Understand the location and geographical characteristics of regions and patterns of settlement.
- Locate on a map important political features such as the five largest cities and the 50 states.
- Create a map of important physical features such as the Appalachian Mountains, Great Lakes, Mississippi River, Great Plains, and Rocky Mountains.
- Analyze the positive and negative consequences of human modification of the environment in the United States.
- Understand the benefits of the free enterprise system and patterns of work and the impact of supply and demand.
- Describe the impact of mass production, specialization, and division of labor on the economic growth of the United States.
- Understand how people organize governments and the importance of our founding documents, identifying the roots of representative government of the U.S. including the important ideas in the Declaration of Independence and the Constitution, to include the Mayflower Compact and the Virginia House of Burgesses.
- Examine the importance of effective leadership of a democratic society, appreciate fundamental rights guaranteed in the Bill of Rights, and describe customs of various racial, ethnic, and religious groups.
- Recite and explain the meaning of the Pledge of Allegiance to the United States Flag.
- Understand the fundamental rights of American citizens guaranteed in the Bill of Rights. The student is expected to describe the fundamental rights guaranteed in the Bill of Rights, including freedom of religion, speech, and press; the right to assemble and petition the government; the right to keep and bear arms; the right to trial by jury; and the right to an attorney.
- Explain how examples of art, music, and literature reflect the time during which they were created.
- Explain how scientific discoveries and technological innovations in the fields of medicine, communication, and transportation have benefited individuals and society in the United States.

Technology

- Use creative thinking and innovative processes to construct knowledge and develop digital products.
- Collaborate and communicate both locally and globally using digital tools and resources to reinforce and promote learning.
- Acquire and evaluate digital content for relevance and appropriateness.
- Research and evaluate projects using digital tools and resources.
- Practice safe, responsible, legal, and ethical behavior while using digital tools and resources.
- Demonstrate knowledge and appropriate use of technology systems, concepts, and operations.
- Physical Development
- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (apply correct technique and combinations during lead-up activities, maintain balance during increasingly complex movements, sequence four or more skills with repetition).
- Demonstrate proficiency in developmentally appropriate manipulative skills in a dynamic environment (throwing using follow-through and body weight transfer; catching while moving; dribbling with either hand; proper technique for dribbling with either foot, kicking, and punting; correct technique in volleying).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (apply speed, direction, and force during dynamic activities and lead-up games).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Understand, apply, and create with various media, skills, processes, and techniques for drawing, painting, and sculpture to the creation of art pieces.
- Understand, apply and create various instruments and voice techniques to the performance of music at an appropriate level.
- Understand the artist's and musician's connection to the global community.
- Nurture a lifelong love for art and music.

Sixth Grade

Sixth grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Speak clearly and to the point, using conventions of language.
- Use a range of reading skills with greater complexity in both assigned and independent reading to understand the author's message. These skills will include establishing purpose; asking literal, interpretive, evaluative, and universal questions; monitoring comprehension; making inferences; summarizing, paraphrasing and synthesizing, and making connections between and across multiple texts of various genres.
- Understand, make inferences, and draw conclusions about varied genres including poetry, fiction, expository, and procedural texts.
- Follow multi-tasked instructions to complete a task, solve a problem, or perform procedures.
- Use the writing process to compose text (personal experiences, procedural, and persuasive) while applying the conventions of academic language.
- Ask open-ended research questions and develop a plan of answering them; determine, locate, and explore the full range of relevant sources addressing that research question: systematically record information, evaluate and synthesize collected information.
- Organize and present ideas and information according to the purpose of the research and audience.
- Synthesize research into a written or oral presentation.

Math

- Classify whole numbers, integers, and rational numbers using a visual representation.
- Identify a number, its opposite, and its absolute value.
- Order a set of rational numbers arising from mathematical and real-world contexts.
- Recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values.
- Determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one.
- Represent integer operations with concrete models and connect the actions with the models to standardized algorithms.
- Develop an understanding of proportional relationships in problem situations.
- 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.
- Apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates.
- Represent ratios and percents with concrete models, fractions, and decimals.
- Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money.
- Solve problems involving proportional relationships.
- Represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions.
- Solve real-world problems 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.
- Use multiple representations to describe algebraic relationships.
- Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization.
- Generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties.
- Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, triangles, and volume of right rectangular prisms where dimensions are positive rational numbers.
- Use equations and inequalities to represent situations and solve problems.
- Use numerical or graphical representations to analyze problems.
- Use numerical or graphical representations to solve problems.
- Learn to manage one's financial resources effectively for lifetime financial security by understanding the differences between debit and credit cards, why it is important to establish a positive credit history, and the understanding of a credit report.
- Apply math to solve problems connected to everyday experiences.
- Communicate about math using formal and informal mathematical language.
- Display, explain, and justify mathematical ideas and arguments.
- Communicate mathematical ideas, reasoning, and their implications using multiple representations.

Science

- Knows that matter is made of atoms, can be classified according to its properties, and can undergo changes.
- Knows the nature of forces and their role in systems that experience stability or change.
- Knows that the total energy in systems is conserved through energy transfers and transformations.
- Models the cyclical movements of the Sun, Earth, and Moon and describes their effects.

- Understands the rock cycle and the structure of Earth.
- Understands how resources are managed.
- Knows that interdependence occurs between living systems and the environment.
- Knows that organisms have an organizational structure and variations can influence survival of populations.

Social Studies

- Study people and places of the contemporary world including location and geographical characteristics.
- Identify and explain the geographic factors responsible for patterns of population in places and regions.
- Explain ways in which human migration influences the character of places and regions.
- Identify and locate major physical and human geographic features such as landforms, water bodies, and urban centers of various places and regions.
- Understand how geographic factors influence the economic development and political relationships of societies.
- Understand the impact of interactions between people and the physical environment on the development and conditions of places and regions.
- Understand the relationships among cultures.
- Compare and contrast free enterprise, socialist, and communist economies in various contemporary societies, including the benefits of the U.S. free enterprise system.
- Define and give examples of agricultural, retail, manufacturing (goods), and service industries.
- Describe levels of economic development of various societies using indicators such as life expectancy, gross domestic product (GDP), GDP per capita, and literacy.
- Understand economic and governmental systems including limited and unlimited governments and citizenship.
- Identify historical origins of democratic forms of government such as Ancient Greece.
- Compare ways in which various societies such as China, Germany, India, and Russia organize government and how they function.
- Describe and compare roles and responsibilities of citizens in various contemporary societies, including the United States.
- Identify and describe means of cultural diffusion such as trade, travel, and war.
- Identify and explain examples of conflict and cooperation between and among cultures.
- Understand relationships that exist among world cultures, the relationship that exists between the arts and the societies in which they are produced, and the relationship among religion, philosophy, and culture.
- Understand the relationship of technology and science as it affects the development of societies.
- Apply critical thinking skills to understand point of view and conflict through a study of current events and the impact history has had on those events.

Technology

- Use creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.
- Collaborate and communicate both locally and globally to reinforce and promote learning.
- Acquire, analyze, and manage content from digital resources.
- Make informed decisions by applying critical-thinking and problem-solving skills.
- Practice safe, responsible, legal, and ethical behavior while using technology tools and resources.
- Demonstrate a thorough understanding of technology concepts, systems, and operations.

Physical Development

- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (perform a variety of skills and combinations during dynamic activities and games, proper body positioning, footwork, offensive and defensive skills).
- Demonstrate proficiency in developmentally appropriate manipulative skills in a dynamic environment (throwing to a moving target; catching from different levels and trajectories; hand dribbling while changing speed and direction; correct foot dribbling, kicking, and punting with accuracy; volleying to a target).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (apply speed, direction, and force during dynamic activities and lead-up games).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Understand, apply, and create with various media, skills, processes, and techniques for drawing, painting, and sculpture to the creation of art pieces.
- Understand and apply various instruments and voice techniques to the performance of music at an appropriate level.
- Understand the artist's and musician's connection to the global community.
- Nurture a lifelong love for art and music.

Seventh Grade

Seventh grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Engage in academic discussions by speaking clearly and to the point, using conventions of language, and using newly acquired vocabulary expressively.
- Use a range of reading skills with greater complexity in both assigned and independent reading to understand the author's message. These skills will include establishing purpose; asking literal, interpretive, evaluative, and universal questions; monitoring comprehension; making inferences; summarizing, paraphrasing and synthesizing, and making connections between and across multiple texts of various genres.
- Make inferences and use evidence to support understanding of written texts across a variety of genres (such as fiction, poetry, literary nonfiction, informational, and argumentative).
- Use the writing process to compose texts (literary, informational, argumentative, and correspondence) while applying the conventions of academic language and using genre characteristics and craft.
- Research and utilize the inquiry process to refine research questions, develop a plan, identify relevant sources, evaluate and synthesize collected information, differentiate between paraphrasing and plagiarizing, and present information in writing, orally, or in a multimodal presentation..

Math

- Use addition, subtraction, multiplication, and division to solve problems involving whole numbers, integers, and rational numbers.
- Convert between fractions, decimals, whole numbers, and percents.
- Use division to find unit rates and ratios in proportional relationships.
- Simplify numerical expressions involving order of operations.
- Determine the reasonableness of a solution to a problem given a two-step equation or inequality with one variable.
- Find solutions to application problems involving proportional relationships (i.e., scale drawings and maps).
- Generate and apply formulas, and graph data to demonstrate relationships in familiar concepts such as conversions, perimeter, area, circumference, composite area, volume, and scaling to solve problems.
- Use concrete models to solve equations and use symbols to record the actions and formulate a possible situation when given a simple problem.
- Compare and classify two and three dimensional figures using geometric vocabulary, and properties; including complementary and supplementary angles; and use critical attributes to define similarly.
- Find lateral and surface area of rectangular prisms and pyramids using the shape's net.
- Solve application problems involving estimation and measurement; and connect models for volume.
- Construct sample spaces for compound events; find the approximate probability of a compound event through experimentation; and find probability of independent events.
- Understand that the way a set of data is displayed influences its interpretation.
- Analyze and make inferences from data.
- Select and use an appropriate representation for presenting collected data and justify the selection.
- Use measures of central tendency and range to describe a set of data.
- Apply math to solve problems connected to everyday experiences such as sales tax, income tax, simple interest, and compound interest.
- Communicate about math using informal language like monetary incentives, rebates, or coupons.
- Use logical reasoning to make conjectures and verify conclusions.
- Represent a linear relation in the form of $y = mx + b$ for a table of values, graphical model, or verbal description.

7th PreAlgebra

- Approximate the value of irrational numbers as they arise from problem situations and express numbers in order from a real-world or mathematical context verbally and through written text.
- Add, subtract, multiply, and divide rational numbers in problem situations fluently with and without technology.
- Solve one variable equations with variables on both sides of the equal sign containing rational numbers as constants or coefficients.
- Write an inequality for a problem situation with variables on both sides of the symbol.
- Evaluate a solution for reasonableness.
- Compare and contrast proportional and nonproportional relationships and estimate and find solutions to application problems involving percents and proportional relationships such as similarity, rate, and slope.
- Represent proportional ($y = kx$) and non-proportional ($y = mx + b$) relationships from a table of values, graph, or verbal situation.
- Generate a different representation given one representation of data.

- Use graphs, tables, and algebraic representations to make predictions and solve problems.
- Use an algebraic expression to find any term in a sequence.
- Generate similar shapes, congruent shapes, or an algebraic representation for dilations, reflections and translations on a coordinate plane.
- Generate an algebraic expression or draw a figure that is rotated 90° , 180° , 270° , or 360° about a fixed point.
- Use pictures and models to demonstrate the Pythagorean Theorem and solve real life problems; and use proportional relationships in shapes to find missing measurements.
- Locate and name points on a coordinate plane using ordered pairs on rational numbers.
- Use procedures to determine measures of solids, including surface area of prisms and cylinders, connecting models to formulas for volume of prisms, cylinders, pyramids, cones, and spheres.
- Describe how changes in dimension affect linear, area, and volume measures.
- Apply concepts of theoretical and experimental probability to make predictions.
- Use statistical procedures to describe data, including the appropriate measure of central tendency.
- Draw conclusions and make predictions by analyzing trends in scatterplots; and construct circle graphs, bar graphs, and histograms.
- Evaluate predictions and conclusions based on statistical data.
- Apply math to solve problems connected to everyday experiences such as compound interest.
- Communicate about math using informal language about credit cards, savings for college, retirement, and financial irresponsibility.
- Use logical reasoning to make conjectures and verify conclusions verbally and through written text.

Science

- Knows that matter has measurable physical properties that determine how matter is identified, classified, changed, and used.
- Describes the cause-and-effect relationship between force and motion.
- Understands the behavior of thermal energy as it flows into and out of systems.
- Understands the patterns of movement, organization, and characteristics of components of our solar system.
- Understands the causes and effects of plate tectonics.
- Understands how human activity can impact the hydrosphere.
- Understands that ecosystems are dependent upon the cycling of matter and the flow of energy.
- Knows how systems are organized and function to support the health of an organism and how traits are inherited.
- Knows how the taxonomic system is used to describe relationships between organisms.

Social Studies – Texas History

- Understand traditional historical points of reference in Texas history from exploration to present.
- Understand how individuals, events, and issues through the Mexican National Era shaped the history of Texas.
- Compare the cultures of American Indians in Texas prior to European colonization such as Gulf, Plains, Puebloan, and Southeastern.
- Contrast Spanish, Mexican, and Anglo purposes for and methods of settlement in Texas.
- Understand how individuals, events, and issues related to the Texas Revolution shaped the history of Texas.
- Understand geographic influence on Texas history and can locate and compare the Mountains and Basins, Great Plains, North Central Plains, and Coastal Plains regions.
- Understands the characteristics, distribution, and migration of population in Texas in the 19th, 20th, and 21st centuries.
- Explain economic factors and the development of major industries that led to the urbanization of Texas such as transportation, oil and gas, and manufacturing.
- Explain the changes in the types of jobs and occupations that have resulted from the urbanization of Texas.
- Understand the basic principles reflected in the Texas Constitution and compare the Texas Constitution to the U.S. Constitution.
- Identify different points of view of political parties and interest groups on important Texas issues, past and present.
- Describe the structure and functions of government at municipal, county, and state levels.
- Understand the importance of the expression of different points of view in a democratic society.
- Understand the concept of diversity within unity in Texas.
- Understand the impact of scientific discoveries and technological innovations on the political, economic, and social development of Texas.
- Use critical thinking to analyze social studies information.

Technology

- Use creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.
- Collaborate and communicate both locally and globally to reinforce and promote learning.
- Acquire, analyze, and manage content from digital resources.
- Make informed decisions by applying critical-thinking and problem-solving skills.
- Practice safe, responsible, legal, and ethical behavior while using technology tools and resources.
- Demonstrate a thorough understanding of technology concepts, systems, and operations.

Physical Development

- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (combine and apply a variety of skills during dynamic fitness and sport, proper body positioning, footwork, offensive and defensive skills during game situations and sports).
- Demonstrate proficiency in developmentally appropriate manipulative skills in a dynamic environment (throwing with distance, power, and accuracy while moving; catching techniques applied to a variety of objects from different levels and trajectories; offensive and defensive game strategies while hand dribbling; kicking and punting with control, distance, and accuracy during game situations and sports; correct technique in volleying with control and accuracy during game situations and sports).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (apply speed, direction, and force during dynamic activities, games, and sports).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Understand, apply and create with various media, skills, processes, and techniques for drawing, painting, and sculpture to the creation of art pieces.
- Understand, apply, and create with various instruments and voice techniques to the performance of music at an appropriate level.
- Understand and create production using the mechanics of theater productions and perception of self through conventions of theater.
- Create art, music, and dramatic productions using appropriate materials and skills using a unique “artistic voice.”

Eighth Grade

Eighth grade students will:

Language Arts

- Use comprehension skills to listen attentively to others in formal and informal settings.
- Engage in academic discussions by speaking clearly and to the point, using conventions of language, and using newly acquired vocabulary expressively.
- Use a range of reading skills with greater complexity in both assigned and independent reading to understand the author's message. These skills will include establishing purpose; asking literal, interpretive, evaluative, and universal questions; monitoring comprehension; making inferences; summarizing, paraphrasing and synthesizing, and making connections between and across multiple texts of various genres.
- Make inferences and use evidence to support understanding of written texts across a variety of genres (such as fiction, poetry, literary nonfiction, informational, and argumentative).
- Use the writing process to compose texts (literary, informational, argumentative, and correspondence) while applying the conventions of academic language and using genre characteristics and craft.
- Research and utilize the inquiry process to refine research questions, develop a plan, identify relevant sources, evaluate and synthesize collected information, differentiate between paraphrasing and plagiarizing, and present information in writing, orally, or in a multimodal presentation.

Math

- Approximate the value of irrational numbers as they arise from problem situations and express numbers in order from a real-world or mathematical context.
- Add, subtract, multiply, and divide rational numbers in problem situations fluently with and without technology.
- Solve one variable equations with variables on both sides of the equal sign containing rational numbers as constants or coefficients.
- Write an inequality for a problem situation with variables on both sides of the symbol.
- Evaluate a solution for reasonableness.
- Compare and contrast proportional and nonproportional relationships and estimate and find solutions to application problems involving percents and proportional relationships such as similarity, rate, and slope.
- Represent proportional ($y = kx$) and non-proportional ($y = mx + b$) relationships from a table of values, graph, or verbal situation.
- Generate a different representation given one representation of data.
- Use graphs, tables, and algebraic representations to make predictions and solve problems.
- Use an algebraic expression to find any term in a sequence.
- Generate similar shapes, congruent shapes, or an algebraic representation for dilations, reflections and translations on a coordinate plane.
- Generate an algebraic expression or draw a figure that is rotated 90° , 180° , 270° , or 360° about a fixed point.
- Use pictures and models to demonstrate the Pythagorean Theorem and solve real life problems; and use proportional relationships in shapes to find missing measurements.
- Locate and name points on a coordinate plane using ordered pairs on rational numbers.
- Use procedures to determine measures of solids, including surface area of prisms and cylinders, connecting models to formulas for volume of prisms, cylinders, pyramids, cones, and spheres.
- Describe how changes in dimension affect linear, area, and volume measures.
- Apply concepts of theoretical and experimental probability to make predictions.
- Use statistical procedures to describe data, including the appropriate measure of central tendency.
- Draw conclusions and make predictions by analyzing trends in scatterplots; and construct circle graphs, bar graphs, and histograms.
- Evaluate predictions and conclusions based on statistical data.
- Apply math to solve problems connected to everyday experiences such as compound interest.
- Communicate about math using informal language about credit cards, savings for college, retirement, and financial irresponsibility.
- Use logical reasoning to make conjectures and verify conclusions.

Science

- Understands that matter can be classified according to its properties and matter is conserved in chemical changes that occur within closed systems.
- Understands the relationship between force and motion within systems.
- Knows how energy is transferred through waves.
- Describes the characteristics of the universe and the relative scale of its components.
- Knows that interactions between Earth, ocean, and weather systems impact climate.

- Knows that natural events and human activity can impact global climate.
- Understands stability and change in populations and ecosystems.
- Knows how cell functions support the health of an organism and how adaptation and variation relate to survival.

Social Studies – United States History

- Understand the issues and events in the history of the United States from the early colonial period through Reconstruction.
- Describe how religion and virtue contributed to the growth of representative government in the American colonies.
- Understand significant political and economic issues of the revolutionary and Constitutional eras.
- Understand the challenges confronted by the government and its leaders in the early years of the republic and the Age of Jackson.
- Understand westward expansion and its effects on the political, economic, and social development of the nation.
- Explain the central role of the expansion of slavery in causing sectionalism, disagreement over states' rights, and the Civil War.
- Understand how political, economic, and social factors led to the growth of sectionalism and the Civil War.
- Explain the effects of Reconstruction on the political, economic, and social life of the nation.
- Analyze the effects of physical and human geographic factors such as weather, landforms, waterways, transportation, and communication on major historical events in the United States.
- Describe the physical characteristics of the United States and their impact on settlement patterns past and present.
- Analyze various economic and social factors that have influenced the development of America.
- Examine American beliefs and principles reflected in the U. S. Constitution and historical documents.
- Explain federalism between state and federal governments and identify the origin of judicial review.
- Examine the rights and responsibilities of citizens of the United States.
- Understand the importance of the expression of different points of view in a constitutional republic.
- Describe the importance of free speech and press in a constitutional republic.
- Identify and analyze relationships between and among people from various groups, including racial, ethnic, and religious groups prior to the Civil War.
- Understand the impact of religion on the American way of life.
- Understand the relationship between the arts and the time during which they were created.
- Evaluate the impact of scientific discoveries and technological innovations on the development of the United States.
- Use critical thinking skills to analyze Social Studies information.

Technology

- Use creative thinking and innovative processes to construct knowledge, generate new ideas, and create products.
- Collaborate and communicate both locally and globally to reinforce and promote learning.
- Acquire, analyze, and manage content from digital resources.
- Make informed decisions by applying critical-thinking and problem-solving skills.
- Practice safe, responsible, legal, and ethical behavior while using technology tools and resources.
- Demonstrate a thorough understanding of technology concepts, systems, and operations.

Physical Development

- Demonstrate proficiency in fundamental movement patterns and developmentally appropriate locomotor and non-locomotor skills (combine and apply a variety of skills during dynamic fitness and sport, proper body positioning, footwork, offensive and defensive skills during game situations and sports).
- Demonstrate proficiency in developmentally appropriate manipulative skills in a dynamic environment (throwing with distance, power, and accuracy while moving; catching techniques applied to a variety of objects from different levels and trajectories; offensive and defensive game strategies while hand dribbling; kicking and punting with control, distance, and accuracy during game situations and sports; correct technique in volleying with control and accuracy during game situations and sports).
- Demonstrate proficiency in spatial and body awareness, including pathways, shapes, levels, speed, direction, and force (apply speed, direction, and force during dynamic activities, games, and sports).
- Demonstrate proficiency in performance strategies in invasion, target, net or wall games, fielding, striking, and cooperative games.
- Demonstrate and recognize a health-enhancing, physically active lifestyle.
- Recognize the correlation between nutrition, hydration, and physical activity.
- Identify the value of lifetime wellness.

Fine Arts

- Understand, apply and create with various media, skills, processes, and techniques for drawing, painting, and sculpture to the creation of art pieces.
- Understand, apply, and create with various instruments and voice techniques to the performance of music at an appropriate level.
- Understand and create production using the mechanics of theater productions and perception of self through conventions of theater.
- Create art, music, and dramatic productions using appropriate materials and skills using a unique “artistic voice.”