



Fourth Grade Objectives

Life Skills

- Be a good friend
- Listen to others
- Follow directions
- Complete required classroom work
- Share and cooperate with others
- Be respectful
- Turn in assignments on time
- Complete required homework assignments

Language Arts

Reading

- Refer to details and examples in a text when explaining what the text says and when drawing inferences
- Determine the theme of a text; summarize the text
- Describe in depth a character, setting, or event in a text, drawing on specific details in the text
- Explain events, procedure, ideas, or concepts in a historical, scientific, or technical text
- Determine the meaning of words and phrases as they are used in a text (general academic and domain-specific words and phrases)
- Compare and contrast different types of texts using technical vocabulary (e.g., verse, rhythm, meter, dialogue)
- Describe the overall structure of a text (e.g., chronology, comparison, cause/effect, problem/solution)
- Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations
- Compare and contrast a firsthand and secondhand account of the same event or topic (including those by or about Minnesota American Indians)
- Make connections between the text of a story and a visual or oral presentation of the text
- Compare and contrast the treatment of similar themes and topics and patterns of events in texts
- Interpret information presented visually, orally, or quantitatively (e.g., charts, graphs, diagrams, timelines, animations, interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears
- Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably
- Read and comprehend texts (variety of genres) in the grades 4-5 text complexity band proficiently and independently
- Self-select texts for personal enjoyment, interest, and academic tasks
- Know and apply grade-level phonics and words analysis skills in decoding words
- Read with sufficient accuracy and fluency to support comprehension

Writing

- Write opinion pieces on topics or texts, supporting a point of view with reasons and information
 - Introduce a topic clearly
 - Provide reasons that are supported by facts and details
 - Link opinion and reasons using words and phrases
 - Provide a conclusion
- Write informative/explanatory texts and examine a topic and convey ideas and information clearly
 - Introduce a topic clearly and group related information in paragraphs and sections; include formatting, illustrations, and multimedia when useful to aiding comprehension
 - Develop the topic with facts, definitions, concrete details, quotations, or other information or examples related to the topic

- Link ideas within categories of information using words and phrases
- Use precise language and domain-specific vocabulary
- Provide a concluding statement or section
- Write narrative and other creative texts to develop real or imagined experiences or events using effective technique, descriptive details and clear event sequences
 - Orient the reader by establishing a situation and introducing a narrator and/or characters; organize an event sequence that unfolds naturally
 - Use dialogue and description to develop experiences and events to show the responses of characters to situations
 - Use a variety of transitional words and phrases to manage the sequence of events
 - Use concrete words and phrases and sensory details to convey experiences and events precisely
 - Provide a conclusion that follows from the narrated experiences or events
- Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience
- With support, use a writing process to develop and strengthen writing as needed
- With support, use technology to produce and publish writing as well as to interact and collaborate with others
- Conduct short research projects that build knowledge through investigation of different aspects of a topic
- Recall relevant information from experiences or gather information from print and digital sources
- Take notes and categorize information, and provide a list of sources
- Draw evidence from literary or informational texts to support analysis, reflections, and research
- Write routinely over extended time frames and shorter time frames for a range of discipline-specific tasks, purposes, and audiences

Speaking, Viewing, Listening, Media

- Engage effectively in a range of collaborative discussions with diverse partners, building on others' ideas and expressing their own clearly
- Paraphrase portions of a text read aloud or information presented in diverse media formats
- Identify the reasons and evidence a speaker provides to support particular points
- Report on a topic or a text and avoid plagiarism by identifying sources, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details; speak clearly at an understandable pace
- Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes
- Differentiate between contexts that call for formal English (presenting ideas) and situations where informal discourse is appropriate (small-group discussion)
- Distinguish among, understand, and use different types of print, digital, and multimodal media
 - Make informed judgments about messages promoted in the mass media
 - Locate and use information in print, non-print, and digital resources using a variety of strategies
 - Check for accuracy of information between two different sources
 - Recognize safe practices in social and personal media communications
- Create an individual multimedia work for a specific purpose
 - Create a list documenting the source for each found image or piece of music
 - Publish work and share it with an audience

Language

- Use relative pronouns (who, whose, whom, which, that) and relative adverbs (where, when, why)
- Form and use the progressive verb tenses
- Use modal auxiliaries (e.g., can, may, must) to convey various conditions
- Order adjectives within sentences according to conventional patterns
- Form and use prepositional phrases
- Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons
- Correctly used frequently confused words (too, to, two; there, their, they're)
- Use correct capitalization
- Use commas and quotation marks to mark direct speech and quotations from a text
- Use a comma before a coordinating conjunction in a compound sentence
- Spell grade-appropriate words correctly, consulting references as needed
- Choose punctuation for effect
- Use context clues to help determine meaning of unfamiliar words
- Use common, grade-appropriate Greek and Latin affixes and roots as clues to the meaning of a word
- Consult reference materials, both print and digital, to find the pronunciation and determine or clarify the precise meaning of key words and phrases
- Explain the meaning of simple similes and metaphors
- Recognize and explain the meaning of common idioms, adages, and proverbs
- Demonstrate understanding of words by relating them to their antonyms and synonyms
- Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases, including those that signal precise actions, emotions, or states of being

Math

Number and Operation

- Read, write, order and compare numbers up to hundred-millions
- Write numbers in expanded form
- Locate positive and negative numbers on a number line
- Round to the nearest ten; to the nearest hundred; to the nearest thousand
- Identify perfect squares (and square roots) to 144
- Identify Roman numerals from 1-1000 and identify years as written in Roman numerals
- Demonstrate fluency with multiplication and division facts; understand that they are inverse operations
- Mentally multiply any number by 10, 100, and 1000
- Multiply multi-digit numbers (two- and three-digit), based on knowledge of place value and standard algorithms
- Estimate products and quotients of multi-digit whole numbers using rounding
- Identify different ways of writing division problems
- Solve division problems with remainders
- Know the meanings of multiple, factor, prime number, and composite number
- Solve multi-step real-world mathematical problems using various strategies
- Solve problems with more than one operation (order of operations)
- Recognize fractions to one-twelfth
- Identify numerator and denominator
- Write mixed numbers; change improper fractions to mixed number and vice versa
- Put fractions in simplest (lowest) terms
- Represent equivalent fractions using fraction models
- Locate fractions on a number line
- Compare fractions with like and unlike denominators, using signs $<$, $>$, and $=$
- Use fraction models to add and subtract fractions with like denominators
- Read and write decimals with words and symbols
- Compare and order decimals and whole numbers

- Read and write tenths, hundredths, and thousandths in decimal and fraction notations using words and symbols
- Write decimals in expanded form
- Round decimals to the nearest tenth; to the nearest hundredth
- Add and subtract with decimal numbers to two places
- Solve problems making changes in amounts up to \$100.00
- Solve multiplication and division problems with money

Algebra

- Create and use input-output rules involving addition, subtractions, multiplication and division to solve problems; record inputs and outputs in a chart or table
- Use letters to stand for any numbers, as in working with a formula
- Understand how to interpret number sentences involving multiplication, division, and unknowns
- Use number sense, properties of multiplication and division to find values for the unknowns that make the number sentence true

Geometry and Measurement

- Estimate and make linear measurements in yards, feet, and inches (to 1/8 in.); and in meters, centimeters, and millimeters
- Estimate and measure weight in pounds and ounces; grams and kilograms
- Estimate and measure liquid capacity in teaspoons, tablespoons, cups, pints, quarts, gallons; and in milliliters and liters
- Know common equivalences among U.S. customary and Metric units of measure
- Identify and draw points, segments, rays, lines
- Identify and draw lines: horizontal; vertical; perpendicular; parallel; intersecting
- Describe, classify, and sketch types of triangles; Recognize triangles in various contexts
- Describe, classify, and draw quadrilaterals; Recognize quadrilaterals in various contexts
- Identify radius and diameter of a circle
- Measure angles in geometric figures and real-world objects with a protractor or angle ruler
- Compare angles according to size
- Classify angles as acute, obtuse, or right
- Recognize similar and congruent figures
- Understand how to find area of a two-dimensional figure in squared units
- Find area of irregular geometric figures by dividing the shape into rectangular shapes
- Compute volume of rectangular prisms in cubic units
- Recognize that translations (slides), reflections (flips), and rotations (turns) preserve congruency; use them to show that two figures are congruent

Data Analysis and Probability

- Use tables, bar graphs, timelines, and Venn diagrams to display data sets
- Understand that spreadsheet tables and graph can be used to display data
- Plot points on a coordinate plane (grid), using ordered pairs of positive whole numbers

Technology

- Dewey Decimal System
- Use of keyword searches to locate an item
- Primary vs. secondary sources
- Evaluate the relevancy and reliability of information and sources
- Keyboarding Skills; demonstrate sufficient command of keyboarding skills to type a minimum of one page in a single sitting
- Paint, Draw, and Graphics
- Multimedia using PowerPoint

Spanish

- Review and maintain K-3 objectives
- Master 1-100
- Master seasons
- Add to: classroom, family, food, clothing, places, animals, body, and around the house vocabulary
- Expansion of parts of speech including: gender of nouns, definite articles, punctuation, adjectives, and capitalization
- Sight/High Frequency words
- Study of Spanish speaking countries

Social Studies

World History and Geography

- World Geography
 - Spatial Sense
 - Measure distances using map scales
 - Use latitude and longitude, coordinates, degrees
 - Prime Meridian, International Date Line, Greenwich, England
 - Relief maps: elevation and depression
 - Mountains and Mountain Ranges
 - Major mountain ranges
 - Andes, Rockies, Appalachians, Himalayas, Urals, Atlas, Alps
 - High mountains of the world
 - Everest, McKinley, Aconcagua, Mont Blanc, Kilimanjaro
- Europe in the Middle Ages
 - Background
 - The Huns, Vandals, Franks, Angles, Saxons
 - Fall of Rome (the “Dark Ages”)
 - Geography
 - Rivers: Danube, Rhine, Rhone, Oder
 - Mountains: Alps, Pyrenees
 - Iberian Peninsula
 - France (Normandy)
 - Mediterranean Sea, North Sea, Baltic Sea
 - British Isles; the English Channel
 - History of Christian Church
 - Growing power of the pope
 - Roman Catholic and Eastern Orthodox
 - Conversion of Germanic peoples
 - Rise of monasteries
 - Charlemagne
 - Feudalism
 - Life on a manor
 - Lords, vassals, knights, serfs
 - Code of chivalry
 - Knight, squire, page
 - Norman Conquest
 - William the Conqueror
 - England in the Middle Ages
 - Henry II
 - Magna Carta; King John
 - Parliament
 - The Hundred Years’ War; Joan of Arc
 - Black Death
- The Spread of Islam and the “Holy Wars”
 - Islam
 - Muhammad
 - Allah, Qur’an, jihad
 - Sacred city of Makkah, mosques
 - “Five Pillars” of Islam
 - Spread of Islam
 - Islamic Civilization
 - Contributions to science and math
 - Muslim scholars
 - Thriving cities
 - Wars Between Muslims and Christians
 - The Holy Land, Jerusalem
 - The Crusades
 - Saladin and Richard the Lion-Hearted
 - Growing trade and cultural exchange
- Early and Medieval African Kingdoms
 - Early African Kingdoms
 - Kush and Axum
 - Medieval Kingdoms of the Sudan
 - Flourishing kingdoms: Ghana, Mali, Songhai
 - Timbuktu
 - Ibn Batuta (Battutah, Batuta)
 - Geography of Africa
 - Mediterranean and Red Seas
 - Atlantic and Indian Oceans

- Cape of Good Hope
- Madagascar
- Rivers: Nile, Niger, Congo
- Atlas Mountains, Mt. Kilimnajar
- Contrasting climate in regions

- China: Dynasties and Conquerors
 - Qin Shihuangdi begins building Great Wall
 - Han Dynasty
 - Tang and Song Dynasties
 - Mongol invasions and rule
 - Chinggis Khan, Khubilan Khan, Marco Polo
 - Ming Dynasty

American History and Geography

- The American Revolution
 - French and Indian War
 - Alliances with Native Americans
 - The Battle of Quebec
 - British victory implications
 - Causes and Provocations
 - British taxes
 - Boston Massacre
 - Boston Tea Party
 - The Intolerable Acts
 - First Continental Congress protests
 - Thomas Paine’s *Common Sense*
 - The Revolution
 - Paul Revere’s ride
 - Concord and Lexington
 - Bunker Hill
 - Second Continental Congress
 - Declaration of Independence
 - Women in the Revolution
 - Loyalists
 - Saratoga, alliance with France
 - Valley Forge
 - Benedict Arnold
 - John Paul Jones
 - Nathan Hale
 - Surrender at Yorktown
- Making a Constitutional Government
 - Ideas Behind the Declaration of Independence
 - “All men are created equal”
 - Responsibility of government to protect the “unalienable rights” of the people
 - “Life, liberty, and the pursuit of happiness”
 - The “right of the people . . . to institute a new government”
 - Making a New Government
 - Republican government
 - Articles of Confederation
 - “Founding Fathers”
 - Constitutional Convention
 - The Constitution
 - Preamble
 - Three branches of government
 - Checks and balances; limits of power; veto
 - The Bill of Rights
 - Levels and Functions of Government
 - Identify current government officials
 - State governments; state constitutions
 - Local governments: purposes, functions, officials
 - Taxes, fees, tolls
 - How people can participate in government
 - Early Presidents and Politics
 - Define: cabinet and administration
 - George Washington and John Adams
 - Abigail Adams
 - National capitol established at Washington D.C.
 - Growth of political parties
 - Thomas Jefferson
 - James Madison
 - James Monroe
 - John Quincy Adams
 - Andrew Jackson

- Reformers
 - Abolitionists
 - Dorothea Dix
 - Horace Mann
 - Women's rights
- Symbols and Figures
 - Spirit of '76
 - White House and Capitol Building
 - Great Seal of the United States
- Introduction to local history
 - Demonstrate an understanding of the history of the city wherein they reside
 - Know and understand the factors that led to the settlement of Minnesota

Science

- **The Human Body**
 - The Circulatory System
 - William Harvey
 - Heart
 - Four chambers
 - Heart attacks
 - Blood
 - Types and transfusions
 - Functions of liver and spleen
 - The Respiratory System
- **Chemistry: Basic Terms and Concepts**
 - Atoms
 - Properties of Matter
 - Mass, volume, density, vacuum
 - Elements
 - Solutions
- **Electricity**
 - Flow of electrons
 - Static electricity
 - Currents and circuits
 - Conductors and insulators
 - Electromagnets
- **Geology: The Earth and Its Changes**
 - The Earth's Layers
 - Crust, mantle, cores
 - Movement of crustal plates
 - Earthquakes
 - Volcanoes
 - Hot springs and geysers
 - Pangaea and continental drift
 - How Mountains are Formed
 - Types of mountains
 - Rocks
 - Formation and characteristics of metamorphic, igneous, and sedimentary
 - Weathering and Erosion
 - Physical and chemical weathering
 - Erosion by water, wind, glaciers
 - Formation of soil
- **Meteorology**
 - Water cycle review
 - Types of clouds
 - The atmosphere
 - Air movement: wind direction and speed, prevailing winds, air pressure, low and high pressure, air masses
 - Cold and warm fronts
 - Forecasting the weather; barometers, weather maps, weather satellites
 - Weather and climate
- **Participate in Science Fair**
- **Science Biographies**
 - Benjamin Banneker, Elizabeth Blackwell, Charles Drew, Michael Faraday

Music

- Elements of Music
 - Recognize a steady beat, accents, and the downbeat; play a steady beat and pattern
 - Discriminate between fast and slow
 - Discriminate between differences in pitch
 - Discriminate between loud and quiet
 - Understand legato
 - Sing unaccompanied, accompanied, and in unison
 - Recognize harmony
 - Recognize verse and refrain
 - Continue work with timbre and phrasing
 - Recognize theme and variations
- Listening and Understanding
 - The Orchestra
- Vocal Ranges
- Composers and Their Music
 - Handel, Haydn, Mozart
- Songs
- Introduction to the recorder
- Improvise and compose rhythms, melodies, and accompaniments
- Read and write music using musical notation (notes and rests)

Art

- Media Exploration
- Art Elements and Principles
- Explore the Historical and Cultural Importance of Art
 - Art of the Middle Ages in Europe
 - General religious nature, illuminated manuscripts, tapestries
 - Gothic architecture: spires, gargoyles, famous cathedrals
 - Islamic Art and Architecture
 - Illuminated manuscript
 - Domes, minarets, Alhambra Palace, Taj Mahal
 - The Art of Africa
 - Spiritual purposes and significance
 - Headdress, sculptures, ivory carvings
 - The Art of China
 - Silk Scrolls, Calligraphy, Porcelain
 - The Art of a New Nation: The United States
 - Famous portraits and paintings
 - Architecture of Thomas Jefferson's Monticello
- Artist Studies

Physical Education

- Demonstrate competency in motor skills and movement patterns needed to perform a variety of physical activities
- Create a dance sequence and refine it into a repeatable pattern
- Demonstrate understanding of concepts, principles, strategies, and tactics as they apply to the learning and performance of physical activities
- Participate regularly in physical activity
- Identify and participate in several activities related to each component of physical fitness (cardiovascular, strength, endurance, flexibility)
- Participate in the President's Challenge Fitness Test
- Exhibit responsible personal and social behavior in physical activity settings
- Value physical activity for health, enjoyment, challenge, self-expression, and social interaction

Health

- Staying Safe
- Digestion; Energy and Nutrients
- Ear Care and Function
- Body Systems Working Together - heart, lungs, bones, muscles, digestion, endocrine, immune
- Hygiene routines
- Media, Peer, Behavioral Influences