

Sixth 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

- Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text
- Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas
- Analyze how and why individuals, events, or ideas develop and interact over the course of a text
- Interpret words and phrases as they are used in a text, including technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone
- Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text relate to each other and the whole
- Describe how a text presents information
- Identify aspects of a text that reveal an author's point of view or purpose
- Assess how point of view or purpose shapes the content and style of a text
- Distinguish among fact, opinion, and reasoned judgment in a text
- Read and comprehend complex literary and informational texts independently and proficiently

Writing

- Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence
- Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately
- Write narratives to develop real or imagined experiences or events
- Produce clear and coherent writing in which the development, organization, and style are appropriate to the task, purpose, and audience
- Use the writing process to develop and strengthen writing as needed by planning, drafting, revising, editing, rewriting, or trying a new approach
- Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others
- Conduct short as well as more sustained research projects based on focused questions
- Write routinely over extended time frames and shorter time frames

Speaking, Viewing, Listening

- Understand and communicate effectively through listening and speaking
- Critically analyze information found in electronic and print media

Math

Number and Operation

- Read and write numbers up to the trillions
- Locate positive rational numbers on a number line and plot pairs of positive rational numbers on a coordinate grid
- Compare positive rational numbers represented in various forms
- Understand that percent represents parts out of 100 and ratios to 100
- Determine equivalences among fractions, decimals and percents
- Factor whole numbers
- Determine greatest common factors and least common multiples
- Identify and use ratios to compare quantities
- Determine the rate for ratios of quantities with different units
- Multiply and divide decimals and fractions
- Understand the inverse relationship between multiplication and division
- Calculate the percent of a number and determine what percent one number is of another
- Estimate solutions and develop strong problem solving skills

Algebra

- Understand that a variable can be used to represent a quantity that can change
- Represent the relationship between two varying quantities with function rules, graphs and tables
- Apply the associative, commutative, and distributive properties and order of operation
- Solve equations involving positive rational numbers using number sense, properties or arithmetic and the idea of maintaining equality on both sides of the equation
- Simplify expressions with variables by combining like terms
- Understand the use of the distributive property in variable expressions

Geometry and Measurement

- Construct parallel lines and a parallelogram
- Construct a perpendicular bisector
- Calculate the surface area and volume of prisms and use appropriate units
- Calculate the area of quadrilaterals
- Estimate the perimeter and area of irregular figures
- Circles: radius, diameter, arc, chord
 - Formula for circumference
- Solve problems using the relationships between the angles formed by intersecting lines
- Determine the missing angle measure in a triangle using the fact that the sum of the interior angles is 180
- Develop and use the formulas for the sums of the interior angles of polygons by decomposing them into triangles
- Estimate weights, capacities and geometric measurements
- Solve problems requiring conversion of units within the U.S. Customary System and within the metric system
- Solve problems on elapsed time

Math, Continued

Data Analysis and Probability

- Find the range and measures of central tendency (mean, median, and mode) of a given set of numbers
- Construct a histogram; a tree diagram
- Plot points on a coordinate plane, using ordered pairs of positive and negative whole numbers
- Determine the sample space for a given experiment and determine which members of the sample space are related to certain events
- Determine the probability of an event using the ratio between the size of the event and the size of the sample space
- Perform experiments for situations in which the probabilities are known, compare the resulting relative frequencies
- Use experimental probabilities to make predictions

Social Studies

World History and Geography

- World Geography
 - Spatial Sense
 - Continents and major oceans
 - Climate and time zones
 - Arctic and Antarctic Circles
 - Great Deserts of the World
 - Definition
 - Africa: Sahara, Kalahari
 - Australia: mostly desert
 - Asia: Gobi
 - North America: Mojave, Chihuahuan, Sonoran
 - South America: Patagonia
- Ancient Civilizations
 - Judaism and Christianity
 - Central ideas and teachings
 - Geography of the Middle East
 - Birthplace of major religions
 - Ancient Greece
 - City-state and patriotism
 - “Classical ideal of human life
 - Greek Wars
 - Great teachers and philosophers
 - Alexander the Great
 - Ancient Rome
 - The Roman Republic
 - Punic Wars
 - Leaders
 - Christianity
 - The “decline and fall” of Rome
- The Enlightenment
 - Faith in science and human reason
 - Thomas Hobbes and John Locke
 - Influence on the United States
- The French Revolution
- Romanticism
- Industrialism, Capitalism, and Socialism
 - Industrial Revolution
 - Eli Whitney, James Watt
 - Iron and steam mills
 - Early factory system

- Latin American Independence Movements
 - History
 - Haitian Revolution
 - Mexican Revolutions
 - Liberators
 - Brazilian independence
 - Geography of Latin America
 - Mexico, Panama, Central America, South America
 - Andes Mountains
 - Brazil: rainforests, Rio de Janeiro, Amazon River
 - Argentina: Rio de la Plata, Buenos Aires, Pampas

American History and Geography

- Minnesota History
 - Understand Minnesota’s role in the major social, economic and political changes both national and international and analyze the impact of those changes
 - Identify examples of the changing relationships between the patterns of settlement and land use in Minnesota
- Immigration
 - Great migrations from Ireland and Germany
 - Southern and eastern Europe
 - China
 - Ellis Island
 - “Melting Pot”
 - Resistance to Catholics and Jews
 - Chinese Exclusion Act
- Industrialization and Urbanization
 - The “Gilded Age”
 - “Rags to Riches”
 - Unions, strikes, Labor Day
 - Influence of big business
 - Free enterprise vs. government regulation
 - Sherman Antitrust Act
 - Interstate Commerce Act
- Reform
 - Populism
 - The Progressive Era
 - Reform for African Americans
 - Women’s suffrage
 - Socialist critique of America: Eugene vs. Debs

Technology/Media

- Technological Awareness
- Keyboarding Skills
- Paint, Draw, and Graphics
- Word Processing
- Information Systems
- Network Awareness
- Internet
- Multimedia
- Video

Spanish

- Review and maintain K-5 objectives
- Master numbers 1,000-1,000,000
- Expansion of parts of speech
- Sight/High frequency words
- Study of Spanish people and cultures
- Latin American/Spanish stories and legends

Physical Education

- Demonstrate competency in motor skills and movement patterns needed to perform a variety of physical activities
 - Dribble a basketball with both hands at varying speeds
 - Perform single rope jumping with 5 variations
 - Show increasing competence in more specialized skills
 - Throw a football
 - Perform a polka step
 - Overhead volleyball serve
- Demonstrate understanding of movement concepts, principles, strategies, and tactics as they apply to the learning and performance of physical activities
 - Define warm-up and cool-down examples and activities
 - Identify basic offensive and defensive strategies
 - Identify the four components of cardiovascular fitness
- Participate regularly in physical activity
 - Keep a record on a weekly calendar of daily physical activity
 - Investigate personal interests and capabilities
- Achieve and maintain a health-enhancing level of fitness
 - Perform health related fitness tests and record scores – create a plan for improvement
- Exhibit responsible personal and social behavior in physical activity settings
- Value physical activity for health, enjoyment, challenge, self-expression and social interaction
 - Treat equipment with care
 - Participate in new activities
 - Follows class rules
 - Cooperate with teammates in activities

Health

- First Aid
- Personal Nutrition Goals
- Eating Disorders
- Cell function and operation
- Life Systems
- Goal Setting, Self-Esteem, Coping Skills
- Growing up: Stages of growth from conception to birth
- Addiction
- Pressures and help resources

Science

Plate Tectonics

- Layered structure of the earth
- Crust movements
- Volcanoes

Oceans

- Surface
- Subsurface
- Ocean bottom
- Composition of seawater
- Currents, tides, and waves
- Marine life
 - Life zones
 - Classification of marine life
 - Phytoplankton

Astronomy: Gravity, Stars, and Galaxies

- Gravity – Newton’s Law
- Stars
 - The sun
 - Types
 - Movement of the stars
 - Constellations
- Galaxies
 - The Milky War
 - Andromeda Galaxy
 - Quasars

Energy, Heat, and Energy Transfer

- Energy
 - Six forms of energy
 - Sources of energy
 - Fossil Fuels and Nuclear energy
- Heat
 - Conduction, convection, radiation

The Human Body

- The circulatory and lymphatic systems
- Immune system

Science Biographies

- Marie Curie
- Lewis Howard Latimer
- Isaac Newton
- Alfred Wegener

Other

- Participate in the Science Fair
- Distinguish between scientific evidence and personal opinion
- Identify questions that can be answered through scientific investigation and those that cannot
- Distinguish among observation, prediction and inference
- Use appropriate tools and units for measuring time, length, mass, volume and temperature with suitable precision and accuracy

Art

- Media Exploration
- Art Elements and Principles
- Explore Historical and Cultural Importance of Art
 - Classical: The Art of Ancient Greece and Rome
 - Gothic Art
 - The Renaissance
 - Baroque
 - Rococo
 - Neoclassical
 - Romantic
 - Realism
- Artist Studies

Music

- Demonstrate vocal and instrumental technique
- Understand musical terms
- Read and write music
- Understand cultural and historical traditions of music
 - Baroque
 - Classical
 - Romantic
- Play from a variety of musical genres