

Grade 5 Content Standards

Bulleted items are a sample of learning expectations and do not represent the total curriculum. The entire curriculum can be found at www.bvsd.org or through your child's teacher.

Language Arts

Reading

Standard: Uses knowledge of vocabulary to understand text (affixes, word origins)

- identifies the meaning of unfamiliar words using word recognition skills and context clues
- selects appropriate definitions from the dictionary, glossary, or other sources
- uses the pronunciation guide in the dictionary to correctly pronounce unfamiliar words

Standard: Uses comprehension strategies to draw inferences, make comparisons, summarize text, determine accuracy and adequacy of information, synthesize, support conclusions and interpretations, and to solve problems

- understands vocabulary essential to text
- synthesizes information from long text passages
- recognizes, compares, and contrasts different texts with similar themes, genre, or ideas
- locates and paraphrases the key/main idea and supporting details
- infers using contextual clues
- identifies sequence of events or ideas
- locates and recalls information in text with different structures (cause/effect, enumeration, and time order)
- provides an accurate written response to text
- uses appropriate strategies for different reading purposes

Standard: Responds to text by sharing personal connections, interpreting the author's message, evaluating the text, making inferences, drawing conclusions, and expressing an opinion

- determines author's purpose and point of view
- makes predictions, makes inferences, and draws conclusions based on information in the text
- uses reading to define and solve problems and answer questions
- distinguishes fact from opinion
- recognizes stereotype or bias in text
- follows detailed directions in paragraph form
- analyzes, interprets, and evaluates a written or spoken message according to purpose and point of view

Standard: Responds to text by interpreting, comparing, and contrasting story elements, text themes, and literary techniques

- identifies, analyzes, and compares and contrasts characters, setting, dialogue, problem/conflict, action/plot/events, resolution/solution, themes and sequence in literature
- uses knowledge of literary techniques and terminology to understand text

Writing

Standard: Plans, drafts, revises, edits, and publishes a variety of forms

- writes for a variety of purposes and audiences using a variety of forms including recount, procedures, explanation, report, narrative and exposition

Organization

- introduces ideas logically, follows a coherent sequence and concludes satisfactorily
- uses transitions to link ideas
- organizes ideas into paragraphs

Writing (continued)

Content/Ideas

- writing stays focused and includes relevant ideas
- details are used to further ideas
- writing is engaging

Style/Fluency

- uses a variety of sentence lengths, structures, and beginnings
- uses a mix of general and precise verbs
- develops a sense of voice
- uses flashes of striking language
- uses figurative language and clear imagery

Language Usage

- identifies and uses conventional grammar including noun, verb, pronoun, adjective, and adverb
- identifies and uses convention correctly including commas, quotation marks, end marks, apostrophes, abbreviations, and capitalization

Planning/Revising/Editing

- creates a general and appropriate plan
- revises documents for missing words, incorrect grammar, and incomplete sentences
- edits writing for spelling and conventions

Standard: Creates legible documents

- creates a readable document using cursive with correct and consistent letter formation and spacing between letters and words
- creates a readable document using electronic publishing skills

Standard: Transfers knowledge of spelling rules and patterns to written work

- recognizes the similarities, differences, relationships, and origins of words
- uses spelling strategies and resources during the writing process
- correctly spells all words from Grade 5 "No Excuse" Spelling List in context and in list form

Speaking and Listening

Standard: Organizes ideas, choose appropriate language, and adjusts delivery to situation

- organizes a presentation for a specific audience
- communicates opinions, information, and viewpoints different from those expressed by others in a clear, tactful, and respectful manner

Standard: Listens to the viewpoint of others and responds, expresses, or modifies own opinions

- summarizes main ideas from written or spoken texts using succinct language
- follows multi-step directions

Research

Standard: Selects, organizes, and summarizes information to support ideas and justify the selection

- creates accurately documented oral and written products
- locates, selects, and integrates relevant information from printed text and electronic media (e.g., table of contents, page numbering, alphabetizing, changes in print, indexes, captions, icons, keyword searches)
- summarizes and organizes information (timeline, graphic organizer, outline) in a variety of ways from authoritative and relevant sources including reference, technical sources, and media
- selects information to support ideas and justify the selection
- locates others' ideas, images, or information in a bibliography, works cited page, or text features (e.g., italics, parentheses, footnotes, quotations)

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Mathematics

Number Sense Standard: Understands the relationship between whole numbers, fractions, decimals, and percents and their use in problem solving

- recognizes, generates, and demonstrates the equivalent forms of commonly used fractions, decimals, and percents
- demonstrates understanding of place value structure by reading, writing, ordering, rounding and comparing numbers from hundredths to millions
- demonstrates understanding of factors, multiples, prime/composite numbers, and square numbers
- represents factor pairs as dimensions of a rectangular array
- uses the commutative, associative, distributive and identity properties for whole numbers to solve equations and evaluate numeric expressions
- develops, tests, and explains conjectures about properties of whole numbers and commonly used fractions and decimals
- multiplies whole numbers by multiples of 10s, 100s, 1,000s
- estimates, determines, and justifies the reasonableness of solutions to problems

Patterns and Algebra Standard: Solves simple linear equations; creates describes, and extends patterns using variables, expressions, equations, and inequalities

- represents and analyzes patterns and functions using words, tables, and graphs
- describes how a change in one quantity results in a change in another quantity
- solves problems involving linear relationships with whole numbers using tables, charts, graphs, concrete objects, or pictures
- solves simple equation problems and open sentences with unknowns using whole numbers
- solves simple inequalities using whole numbers

Probability and Data Analysis Standard: Applies basic probability concepts; collects, displays, compares, and analyzes data

- organizes, constructs, and interprets displays of data including tables, charts, pictographs, line plots, bar graphs, and line graphs
- predicts the probability of outcomes of simple experiments and tests the predictions
- solves problems using strategies for finding all possible combinations and/or arrangements
- from a given scenario, chooses the correct graph from possible graph representations
- determines the range, mode, and median of a set of data.
- designs investigations to address a question and consider how data-collection methods affect the nature of the data set

Geometry Standard: Uses geometric concepts, properties and relationships in one, two and three dimensions

- identifies, compares, and analyzes the attributes of two-dimensional shapes and develops vocabulary to describe the attributes
- uses scale and proportions informally to solve problems
- shows congruency, symmetry, and similarity
- given a coordinate graph, reads and writes coordinate pairs for points in quadrant one
- explores relationships of triangles and quadrilaterals
- predicts and describes the results of flipping, sliding, or turning a two-dimensional shape
- makes and tests conjectures about geometric relationships and develops logical arguments to justify conclusions

Mathematics (continued)

Measurement Standard: Uses measurement (distance, area, perimeter, weight, mass, volume, capacity, time, temperature, angles); makes scale drawings

- uses appropriate units of measure to estimate distance, capacity, and weight (both metric and U.S. customary)
- develops strategies and estimates the perimeter of rectangles, squares and triangles
- selects and uses the appropriate unit and tool to measure to the degree of accuracy required in a particular problem
- measures and draws angles to the nearest 5° using a protractor
- determines elapsed time
- knows basic unit relationships within a measurement system

Computation Standard: Uses computation to solve problems involving addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals

- uses concrete materials or pictures to calculate commonly-used percentages in problem-solving situations
- uses visual models, benchmarks, and equivalent forms to add and subtract commonly used fractions, decimals, and mixed numbers
- demonstrates a conceptual understanding of the four basic arithmetic operations, the relationships among them, and their uses
- uses and explains a variety of estimation techniques to solve problems, and check the reasonableness of an answer
- given a math sentence, using any of one of the four operations with whole numbers, creates and illustrates a real-world problem
- given a real-world problem, uses an appropriate method to correctly solve the problem

Science

Scientific Process and Inquiry Standard: Uses the scientific method to conduct an experiment

- organizes, displays and evaluates graphic displays of experimental data

Physical Science Standard: Identifies physical/chemical properties of matter, energy and external forces

- separates mixtures of substances based on their properties
- identifies and predicts what will or will not change when matter experiences a force or energy transfer
- identifies and classifies factors causing change such as force and energy

Life Science Standard: Understands the diversity, physical characteristics, and life processes of organisms

- compares and contrasts different ecosystems
- explains the interactions and interdependence of living and non-living things in ecosystems
- identifies and describes the human respiratory, endocrine, nervous, and reproductive systems
- identifies the major components of a cell and their functions within the cell

Earth Science Standard: Describes the structure and processes of the earth's surface

- identifies forms of pollution and their effects on the environment
- describes pre-cycling, recycling, and waste management
- creates a model demonstrating the natural processes that shape the earth's surface, such as weathering and erosion
- explains the distribution and causes of natural events, such as earthquakes, volcanic eruptions, and landslides

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Social Studies

History Standard: Understands the chronology of historical events in American history; interprets the impact of culture

- explains how the Constitution distributes power
- explains how individual rights were provided for and protected in the Constitution
- describes how the conflict between states rights and federal rights led to a revolt of the Southern States
- compares and contrasts the differences between the Union and the Confederacy
- explains the conflicts immigrants left and what conflicts they encountered when they reached the United States
- describes the diversity that immigrants brought to this country
- describes how technology changed life in the United States after the Civil War – 1860-1930
- describes the changes that took place in the U.S. after the Civil War

Geography Standard: Describes and uses geographic data, physical, and human characteristics to explain American settlement patterns

- explains how the geography of the northern and southern states shaped their economies and their culture
- determines distances and compares areas on maps and globes
- interprets symbols and legends
- locates places on maps and globes
- uses maps to gather information, to draw inferences, to hypothesize, to reorganize data into patterns, and to look for relationships among data

Civics Standard: Explains the principles of American democracy and citizenship

- explains how current political issues relate to the Constitution, the Bill of Rights, and the Civil War

Economics Standard: Explains how free enterprise changed the face of American society

- explains the economic impact of choice of consumptions and production; supply and demand; and trade.

Music

Standard: Sings or plays on instruments

- identifies and responds to written symbols and/or conductor's cues for tempo and dynamic changes
- sings and identifies two part harmony and sings on pitch
- performs on one or more instruments with appropriate technique

Standard: Reads and notates music

- reads and writes music in the treble clef using conventional notation, symbols, and terminology

Standard: Relates music to various historical and cultural traditions

- compares and contrasts music from various cultural and historical periods
- identifies and describes the role of musicians and the use of music in cultures

Physical Education

Standard: Demonstrates skills and applies concepts to perform a variety of physical activities

- designs, refines, and performs a routine with a partner or in small groups
- volleys and strikes a ball, maintaining control, with a partner or in small group activities
- foot dribbles a ball, maintaining control, with a partner or in small group activities
- identifies and demonstrates basic strategies (e.g. shielding the ball, give 'n go) used in partner or in small group activities

Standard: Demonstrates the components of health related physical fitness

- performs a variety of stretches and exercises while demonstrating correct technique

Standard: Demonstrates knowledge of physical fitness concepts and the benefits of an active, healthy lifestyle

- applies knowledge of health-related fitness, basic fitness principles, and nutrition to a personal fitness program

Standard: Demonstrates safe, responsible behavior in physical education settings

- exhibits consideration for and cooperation with classmates and teachers
- works safely and productively during activity time

Visual Arts

Standard: Recognizes and uses the visual arts as a form of communication

- creates and explains a well-crafted personal work of art based on reflection

Standard: Knows and applies elements of art, principles of design, and sensory and expressive features of visual arts

- uses repetition to enhance other elements of arts and principles of design in a well-crafted work of art

Standard: Knows and applies visual arts materials, tools, techniques, processes and technology

- uses a variety of materials and tools in a safe and responsible manner
- selects the appropriate material for the task

Standard: Relates the visual arts to various historical and cultural traditions

- demonstrates how history and culture have influenced works of art

Standard: Analyzes and evaluates the characteristics, merits, and meanings of works of art

- describes different aspects of a work of art including: time period, culture, medium, style, and subject matter