

5th Grade Curriculum

The bullets indicate a skill the student must master to be considered on grade level by the end of fifth grade.

Language Arts

READING

Word Analysis and Systematic Vocabulary Development

- use roots, affixes, and word origins to analyze and understand the meaning of complex words
- explain the meaning of figurative language and literacy devices in text (imagery, metaphor, and symbolism)
- identify and explain synonyms, antonyms, and homonyms

Comprehension

- identify main ideas and themes in text and identify supporting details for proof
- make inferences and draw conclusions and support with evidence from the text
- differentiate between facts, supported inferences, and opinions in text
- use an understanding of sequential/chronological order and cause/effect to aid comprehension
- summarize and identify the main problem or conflict in a story and how it is resolved

Fluency

- read numerous books to build fluency and comprehension
- read aloud with fluency and accuracy and with appropriate pacing, intonation, and expression

WRITING

Application

- write research reports, narratives, responses to literature, and persuasive compositions in a clear, organized manner using an established rubric as a guide
- write a multiple paragraph composition with a clear topic sentence, ideas/events in sequence, transitional expressions, and a concluding paragraph that summarizes important ideas and details
- use the stages of the writing process
- use correct English conventions in all written work

Research and Technology

- use reference materials to aid writing
- use word-processing skills and publishing programs

Grammar, Punctuation, and Capitalization

- identify and correctly use verbs that are often misused (lie/lay, sit/set, rise/raise, etc.)
- use quotation marks around the words of a speaker
- know the correct use of quotation marks, underlining, or italics for titles of books, poems, songs, and stories
- use transitions and conjunctions to connect ideas
- use a colon to separate hours and minutes and to introduce a list

Spelling

- spell high frequency words correctly in all written work
- spell assigned words correctly

Penmanship

- use neat, legible manuscript and cursive writing in all written work

LISTENING AND SPEAKING

- listen to, make inferences about, and draw conclusions from an oral report
- evaluate and summarize information presented by a speaker
- deliver focused and coherent oral presentations that convey ideas clearly
- demonstrate a command of standard English when speaking

Mathematics

Number Sense

- count, read, write, order, and compare decimals to the thousandths
- determine the prime factors of all numbers through 50
- find decimal and percent equivalents for common fractions
- add, subtract, multiply, and divide positive and negative numbers
- add, subtract, multiply, and divide decimals
- add, subtract, multiply, and divide fractions with like and unlike denominators up to 20
- solve division problems using multi-digit divisors

Algebra and Functions

- use and compute algebraic expressions with one variable ($3x + 2 = 14$)
- identify and graph ordered pairs and solve linear equations using a graph
- use information from a graph to solve problems

Measurement and Geometry

- understand and use the formula for the area of a triangle and a parallelogram by comparing it with the formula for the area of a rectangle
- construct a cube and rectangular box from two-dimensional patterns and use these patterns to compute the surface area for the objects
- find the volume of simple objects and use the appropriate units in common measuring systems (cubic centimeter [cm³])
- measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and triangles by using appropriate tools (compass, protractor, straightedge)
- know that the sum of the angles of any triangle is 180°, the sum of the angles of any quadrilateral is 360°, and use this information to solve problems

Statistics, Data Analysis, and Probability

- determine mean, median, and mode of a set of data and explain the differences
- organize, display, analyze, compare, and interpret data on graphs
- know how to write ordered pairs correctly on a graph

Science

History - Social Science

Physical Science – Elements and their combinations account for all the varied types of matter in the world.

Life Science – Plants and animals have structures for respiration, digestion, waste disposal, and transport of materials.

Earth Science – 1) Water on Earth moves between the oceans and land through the processes of evaporation and condensation. 2) Energy from the Sun heats Earth unevenly, causing air movements that result in changing weather patterns. 3) The solar system consists of planets and other bodies that orbit the Sun in predictable paths.

Investigation and Experimentation – Scientific progress is made by asking meaningful questions and conducting careful investigations. Students should develop their own questions and perform investigations.

United States History and Geography: Making a New Nation

The Land and People Before Columbus

Age of Exploration

Settling the Colonies

Settling the Trans-Appalachian West

The War for Independence

Life in the Young Republic

The New Nation's Westward Expansion

Linking Past to Present: The American People Now and Then