Fourth Grade Overview: English Language Arts

Fourth grade students read longer words and use roots, prefixes, and suffixes to determine the meanings of unknown words. They use details and examples in the text to determine the main idea and describe a character, setting, or event. Students produce writing that is developed, focused, organized, and edited. They group related ideas in paragraphs and sections, and provide an introduction and conclusion. Fourth grade students know when to use formal English, and when informal English is appropriate.

Literature and Informational Text

Key Ideas and Details
Use details and examples to determine and summarize the main idea and describe a character, setting, or event in literature
Use details and examples to determine and summarize the main idea in an informational text
Craft and Structure
Describe the overall structure in literature and informational texts
Integration of Knowledge and Ideas
Use multiple visual, print, and multi-media sources to support understanding of text
Compare and contrast two texts with the same theme or topic
Range of Reading and Level of Text Complexity
Independently read and understand a wide range of grade-level literature and informational texts

Foundational Skills

Phonics and Word Recognition
Use grade-level phonics and word analysis skills Roots, prefixes, and suffixes
Read words with multiple syllables
Fluency
Read with accuracy and understanding

Writing

Text Types and Purposes
Write opinion pieces that include an introduction and conclusion that supports the opinion
Write informative pieces that group related ideas in paragraphs and sections, and provide a conclusion
Write narratives that introduce a narrator and characters; write about what the characters say, feel, and think; use sensory details

Production and Distribution of Writing
Produce writing that is developed, focused, organized, and edited
Use technology to publish writing
Research to Build and Present Knowledge
Conduct research projects

Speaking and Listening

Comprehension and Collaboration
Participate in a variety of discussions (one on one, in groups, and teacher led)
Paraphrase portions of information presented aloud
Presentation of Knowledge and Ideas
Plan and deliver a presentation based on a personal experience
Speak clearly, in complete sentences, and with an appropriate pace and grammar
Include multimedia and visual displays in presentations

Language

Conventions of Standard English
Use correct grammar when writing or speaking
Use correct capitalization, punctuation, and spelling
Use complete sentences
Knowledge of Language
Recognize the difference between written and spoken English and when it is appropriate to use each
Vocabulary Acquisition and Use
Use a variety of methods to determine the meaning of an unknown word
Use a variety of academic and grade level vocabulary

Fourth Grade Overview: Mathematics

In grade four, students will extend their understanding of place value to 1,000,000. Students will use addition, subtraction, multiplication, and division to solve word problems, including problems involving measurement of volume, mass, and time. Students will continue to build their understanding of fractions— creating equal fractions, comparing the size of fractions to fractions and decimals, adding and subtracting fractions, and multiplying fractions by whole numbers. Students measure angles and classify geometric shapes by lines (parallel, perpendicular, etc.) and angles (right, acute, obtuse, etc.). Activities in these areas will include:

Operations and Algebraic Thinking

Use the four operations with whole numbers to solve problems
Can explain how a multiplication equation can be interpreted as a comparison (Johnny has 5 times as many cards as Bill who has 7 cards; 35 = 5 x 7) and can write the equation
Can determine when to use an operation to solve a problem
Can interpret remainders in word problems
Can write equations with using a variable
Can use mental math or estimation strategies to check for reasonable answer
Gain familiarity with factors and multiples
Can define and list factors and multiples for any whole number 1-36.
Can define and determine prime and composite numbers
Generate and analyze patterns
Can generate a pattern that follows a rule

Number & Operations in Base Ten

Generalize place value understanding for multi-digit whole numbers
Can read and write a multi-digit number in word form, base-ten numerals, and expanded form to numbers less or equal to 1,000,000
Can compare two multi-digit numbers symbols
Can write a multi-digit number to any place value
Use place value understanding and properties of operations to perform multi-digit arithmetic
Can add and subtract multi-digit whole numbers using the standard algorithm
Can multiply and divide a multi-digit number by a one-digit number using a strategy

Number and Operations-Fractions

Extend understanding of fraction equivalence and ordering (limited to fractions with denominators 2,3,4,5,6,8,10,12,100)
Can explain and generate equivalent fractions
Can compare two fractions by generating equivalent fractions with common denominators
Can compare two fractions using symbols
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers (limited to fractions with denominators 2,3,4,5,6,8,10,12,100)
Can add and subtract fractions with like denominators
Can solve word problems involving a whole number and a fraction with visual models and equations
Understand decimal notation for fractions, and compare decimal fractions (limited to fractions with denominators 2,3,4,5,6,8,10,12,100)
Can rewrite a fraction with a denominator 10 as an equivalent fraction with denominator 100
Can explain relationship between a fraction and the decimal representation
Can represent fractions with denominators of 10 and 100
Can identify the tenths and hundredths place of a decimal
Can compare two decimals to the hundredths place using symbols

Measurement & Data

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit
Can represent a larger unit as a multiple of smaller units within the same system (1 foot = 12 inches, 2 feet = 24 inches, etc.)
Can solve word problems involving distance, time, volume, mass and money involving simple fractions or decimals
Can explain and use formulas for area and perimeter
Represent and interpret data
Can create a line plot given a set of data
Can use the information on a line plot to solve addition and subtraction problems
Geometric Measurement: Understand concepts of angle and measure angles
Can identify the parts of an angle (vertex, common endpoint, rays)
Can explain that an angle is measured in degrees related to the 360 degrees in a circle
Can use a protractor to measure and create angles
Can explain that the angle measurement of a larger angle is the sum of the angle measures that form the larger angle

Can use addition and subtraction to solve for the missing angle measurement
Can solve word problems involving unknown angles

Geometry

Draw and identify lines and angles, and classify shapes by properties of their lines and angles
Can draw an example of: point, line, line segment, ray, right angle, acute angle, obtuse angle, perpendicular lines, and parallel lines
Can identify the following in a two-dimensional figure: point, line, line segment, ray, right angle, acute angle, obtuse angle, perpendicular lines, and parallel lines
Can classify two-dimensional shapes into categories using parallel and perpendicular lines
Can classify two-dimensional shapes into categories using acute, obtuse or right angles
Can identify a right triangle
Can identify, define, and draw line-symmetric figures