



Whole Numbers: Addition & Subtraction (4 weeks)

- Understands place value tenths to 10,000
- Understands place value notation
- Understands computation with regrouping
- Uses mental math / estimation to add or subtract
- Uses inverses to verify accuracy of computations
- Writes and solves expressions using symbols in place of numbers
- Understands the relative size of digits in a number
- Practices problem solving

Whole Numbers: Multiplication & Division (5 weeks)

- Uses mental math to multiply and divide
- Develops fluency with the multiplication facts up to 10 X 10
- Uses estimation to determine reasonableness of products and quotients computed
- Reads, interprets, solves and composes simple word problems dealing with multiplication and division
- Uses inverses to verify accuracy of computation
- Writes and solves expressions using symbols in place of numbers
- Represents numbers from the tenths to ten thousandths place
- Understands the relative size of digits in a number

Geometry & Measurement (9 weeks)

- Develops understanding of basic geometric figures
- Identifies and describes plane figures and solid figures based on geometric properties
- Develops an understanding of the inner-relatedness of solid figures and plane figures
- Investigates the outcomes when geometric figures are combined and cut apart
- Expands the ability to see geometry in the real world
- Develops an understanding of the concept of time by determining elapsed time
- Develops the ability to recognize the appropriate unit of length needed to measure a specific item
- Compares the relationship of one unit to another
- Checks by measuring to determine if estimates are accurate for length and temperature
- Determines a tool that is appropriate for measuring length
- Recognizes benchmarks for commonly used units of measure

Fractions and Decimals (5 weeks)

- Recognizes the numerator is the top number of a fraction and it represents how many parts of a set or whole
- Recognizes the denominator is the bottom number of a fraction and that it represents the total objects of the set or whole
- Explains the concept that the larger the denominator, the smaller the size of the piece
- Compares simple fractions and tells why one fraction is greater than, less than, or equal to the other
- Represents halves, thirds, fourths, sixths, eighths, and tenths using various fraction models

Data Analysis (4 weeks)

- Collects, organizes, and displays data in bar graphs and tables
- Constructs bar graphs using a variety of scales
- Interprets data in bar graphs
- Develops and evaluates mathematical arguments and proofs
- Selects and uses types of reasoning and proofs

Algebra: The Study of Patterns (5 weeks)

- Applies patterns and rules to describe relationships and solve problems
- Represents unknowns using symbols
- Writes and evaluates mathematical expressions using symbols and different values

Preview Fourth Grade Standards

Unit timelines are suggestions.

Routine topics such as math facts, ordering numbers, calendars, time, money and patterns should be addressed on an ongoing basis.

Teaching, Learning, Caring

All units will include Skills to Maintain, the Process standards, the Algebra strand and Writing Across the Curriculum.