

## Curriculum

<b>Content Area:</b>	<b>MATHEMATICS</b>	<b>Grade Level:</b>	<b>4</b>
<b>MLR Content Standard:</b>	<b>A. Number:</b> Students use numbers in everyday and mathematical contexts to quantify or describe phenomena, develop concepts of operations with different types of numbers, use the structure and properties of numbers with operations to solve problems, and perform mathematical computations. Students develop number sense related to magnitude, estimation, and the effects of mathematical operations on different types of numbers.		
<b>MLR Performance Indicators</b>	<b>WSD Benchmarks</b>	<b>Instruction Level*</b>	<b>Common Assessment</b>
<i>Instruction Levels: I = Introduced; R = Reinforced; E = Evaluated through a Documented Classroom Activity; D = District Common Assessment</i>			
A	Add and subtract numbers up to 7 digits	RE	
A	Know basic addition and subtraction facts up to 12	RE	
A	Know basic multiplication and division facts up to 12	RE	
A *	Understand the function and placement of parentheses in number sentences	R	
A *	Solve addition and subtraction number stories with whole numbers	RE	
A *	Use exponential notation to represent powers of 10	I	
A *	Round/estimate multi-digit numbers to solve number stories	RE	
A *	Solve multiplication and division number stories with whole numbers	RE	
A *	Rename fractions with denominations of 10 and 100 as decimals	R	
A1	Read, write and identify numbers up to 999,999,999	RE	
A1	Compare, order and express the value of numbers up to 9 digits	RE	

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A1	Round whole numbers to any place up to the one-millions	RE	
A2	Find the factors of whole numbers	RE	
A2	Interpret remainders in division number stories	IR	
A2 *	Find the multiples of a given single-digit number (skip counting)	IRE	
A3	Multiply whole numbers up to 3-digit by 2-digit	RE	
A3	Divide whole numbers up to 4-digit by a single-digit and by ten (remainders may be present)	RE	
A4	Order and compare fractions with like and unlike denominators	IR	
A4	Add and subtract fractions with like denominators ("combine")	IRE	
A4	Add and subtract fractions with unlike denominators	I	
A4	List equivalent fractions for 1/10, 1/4, and 1/2	RE	
A4	Represent (name and illustrate) fractions greater than one as mixed numbers and mixed numbers as fractions	RE	
A5	Add and subtract decimals with up to two decimal places	RE	

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A5	Compare, order, and read decimals with up to two decimal places	RE	
A5	Round decimals with up to two decimal places	IRE	
A5	Multiply and divide decimals with up to two decimal places by a 1-digit whole number	IRE	
A5	Connect equivalent decimals and fractions for $\frac{1}{10}$ , $\frac{1}{4}$ , $\frac{1}{2}$ in meaningful contexts (dollar and cent notation)	RE	
A5 *	Read and write decimals up to thousandths	R	

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<b>MLR Content Standard:</b>	<b>B. Data:</b> Students make measurements and collect, display, evaluate, analyze and compute with data to describe phenomena and to make decisions based on data. Students compute statistics to summarize data sets and use concepts of probability to make predictions and describe the uncertainty inherent in data collection and measurement.		
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B	Calculate elapsed time	R	
B	Makes change using dollar and cent notation	RE	
B	Solve money number stories	RE	
B1	Solve number problem stories involving time, temperature, and capacity	RE	
B2	Collect data and construct bar graphs, line plots, tally charts and tables	RE	
B2	Interpret and summarize data in tables, graphs and maps	RE	
B2	Find minimum and maximum (statistical landmarks) in a set of data	RE	
B2	Find range, mode, mean and median in a set of data (statistical landmarks)	R	
B3	Predict and record outcomes	R	
B3	Explore chance events	R	

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MLR Content Standard:	<b>C. Geometry:</b> Students use measurement and observation to describe objects based on their sizes and shapes, construct two- and three-dimensional objects, solve problems involving geometric properties, compute areas and volumes based on object properties and dimensions, and perform transformations on geometric figures.		
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C	Draw and measure line segments to the nearest millimeter and 1/4 inch	RE	
C	Name and locate points specified by ordered number pairs on a coordinate grid	IR	
C	Use a protractor to measure and draw angles	IR	
C	Use a formula to find the volume of rectangular prisms	I	
C1	Identify perpendicular and parallel lines and sides	IRE	
C1	Identify and sketch triangles and quadrilaterals	IRE	
C1	Identify and sketch acute, obtuse, right, straight and reflex angles	IRE	
C1	Name, draw, and label line segments, lines and rays	RE	
C1	Identify and classify edges, vertices and faces of 3-D figures	IR	
C2	Find the area and perimeter of squares and other rectangles using a formula	RE	
C3	Identify lines of reflection, reflected figures, figures with line symmetry, and congruent figures	IRE	

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<b>MLR Content Standard:</b>	<b>D. Algebra:</b> Students use symbols to represent quantities, patterns and relationships and use symbolic manipulation to evaluate expressions and solve equations. Students solve problems using symbols, tables, graphs and verbal rules choosing the most effective representation and converting among representations.		
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D1	Create and evaluate simple expressions with no more than two variables	IRE	
D2	Find the unknown in open sentences in the context of numbers and operations (using letters as the unknown)	RE	
D3	Use tables, rules, diagrams and patterns to represent the relationship between quantities and to extend sequences (ex. "What's My Rule?")	RE	
D3	Use inverse relationships between multiplication and division to solve problems (positive whole numbers)	RE	

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