

Grade 4 Mathematics Concepts and Topics

Week	Marking Period 1	Marking Period 2	Marking Period 3	Marking Period 4
1	<ul style="list-style-type: none"> Place value (to one million): relationships among places in the base ten system Reading & writing numbers to one million: numerals, number names, expanded form 	<ul style="list-style-type: none"> Multiplication (2-digit x 1-digit): equations, rectangular arrays, area models, place value strategies, properties of operations 	<ul style="list-style-type: none"> Factor pairs & multiples (1-100) Prime & composite Word problems involving measurement: converting from larger units of time to smaller units 	<ul style="list-style-type: none"> Decimal notation (fractions with denominators 10 or 100): meter stick, number line Comparison of decimals (to hundredths)
2	<ul style="list-style-type: none"> Place value (to one million): relationships among places in the base ten system Reading & writing numbers to one million: numerals, number names, expanded form Comparison: multi-digit numbers (<, >, =) 	<ul style="list-style-type: none"> Multiplication (3- and 4-digit x 1-digit): equations, rectangular arrays, area models, place value strategies, properties of operations 	<ul style="list-style-type: none"> Fractions equivalent to $\frac{1}{2}$: Relate visual models to multiplicative reasoning Comparison of fractions to benchmarks ($0, \frac{1}{2}, 1$) 	<ul style="list-style-type: none"> Multiplication (2-digit x 2-digit): equations, rectangular arrays, area models, place value strategies, properties of operations
3	<ul style="list-style-type: none"> Comparison: multi-digit numbers (<, >, =) Rounding (within one million): nearest 10 or 100 	<ul style="list-style-type: none"> Multiplication (up to 4-digit x 1-digit): equations, area models, place value strategies, properties of operations Area & perimeter formulas (rectangles): word problems, including missing side lengths 	<ul style="list-style-type: none"> Fractions equivalent beyond $\frac{1}{2}$: relate visual models to multiplicative reasoning Comparison of fractions (Grade 4 limited to denominators of 2, 3, 4, 5, 6, 8, 10, 12, 100): different numerator or denominator 	<ul style="list-style-type: none"> Multiplication (4-digit x 1-digit, 2-digit x 2-digit) & division (4-digit ÷ 1-digit): equations, rectangular arrays, area models, place value strategies, properties of operations
4	<ul style="list-style-type: none"> Rounding (within one million): to any place 	<ul style="list-style-type: none"> Multiplication (up to 4-digit x 1-digit): equations, area models, place value strategies, properties of operations Multiplicative reasoning: converting measurement units (larger to smaller) 	<ul style="list-style-type: none"> Fractions: decomposing Addition & subtraction of fractions (like denominators, including mixed numbers) 1-step word problems: addition & subtraction of fractions with like denominators 	<ul style="list-style-type: none"> Lines, line segments, perpendicular & parallel lines: drawings, identification in two-dimensional figures Lines of symmetry
5	<ul style="list-style-type: none"> Addition & subtraction fluency within one million (without decomposing across zeroes): standard algorithm 	<ul style="list-style-type: none"> Division with & without remainders (2-digit ÷ 1-digit): equations, rectangular arrays, area models, place value strategies, properties of operations 	<ul style="list-style-type: none"> Fractions: decomposing Addition & subtraction of fractions (like denominators, including mixed numbers) 1-step word problems: addition & subtraction of fractions with like denominators Measurement data: line plots (halves, fourths, eighths) 	<ul style="list-style-type: none"> Geometric measurement: angle concepts & measurement
6	<ul style="list-style-type: none"> Addition & subtraction fluency within one million (including decomposing across zeroes): standard algorithm 	<ul style="list-style-type: none"> Division with & without remainders (3- and 4-digit ÷ 1-digit): equations, place value strategies, properties of operations 	<ul style="list-style-type: none"> Multiplication of a fraction by a whole number, including word problems 	<ul style="list-style-type: none"> Geometric measurement: angle concepts & measurement Classification of 2-dimensional shapes: parallel lines, perpendicular lines, angles of specified size
7	<ul style="list-style-type: none"> Multi-step word problems: addition & subtraction, assess reasonableness 	<ul style="list-style-type: none"> Division with & without remainders (3- and 4-digit ÷ 1-digit): equations, place value strategies, properties of operations 	<ul style="list-style-type: none"> Multiplication of a fraction by a whole number, including word problems 	<ul style="list-style-type: none"> Geometric measurement: angle concepts & measurement Classification of 2-dimensional shapes: parallel lines, perpendicular lines, angles of specified size
8	<ul style="list-style-type: none"> Multiplication as comparison 	<ul style="list-style-type: none"> Word problems involving measurement (whole numbers): four operations involving distances, intervals of time, masses of objects, money 	<ul style="list-style-type: none"> Word problems involving measurement (fractions): addition, subtraction, & multiplication involving distances, intervals of time, masses of objects 	<ul style="list-style-type: none"> Geometric measurement: angle concepts & measurement Classification of triangles: sides and angles Addition & subtraction fluency within one million: standard algorithm Four operation word problems (whole numbers): multi-step
9	<ul style="list-style-type: none"> Multiplication & division word problems: comparison (1-digit factors) Distinguishing multiplicative comparison from additive comparison 	<ul style="list-style-type: none"> Four operation word problems (whole numbers): multi-step Area & perimeter formulas (rectangles): word problems, including missing side lengths 	<ul style="list-style-type: none"> Fraction with denominator 10 as equivalent fraction with denominator 100 Addition of fractions with unlike denominators (10 & 100) Decimal notation (fractions with denominators 10 or 100) Word problems involving measurement (including decimals as fractions): distances, liquid volumes, intervals of time 	<ul style="list-style-type: none"> Number & shape patterns