

Concepts	Competencies	Grade Level Vocabulary
Place Value Properties of Operations Decimals	Demonstrate an understanding of rounding as it pertains to whole numbers and decimals Read, write and compare decimals Use whole numbers and decimals to compute accurately (CC.2.1.5.B.1 & CC.2.1.5.B.2)	Write and interpret numerical expressions. parentheses, brackets, braces, numerical expressions Analyze patterns and relationships. numerical patterns, rules, ordered pairs, coordinate plane Understand the place value system. place value, decimal, decimal point, patterns, multiply, divide, tenths, thousands, greater than, less than, equal to, $<$, $>$, $=$, compare/comparison, round
Fractions	Add, Subtract, Multiply and Divide fractions to solve problems Explain operations as they pertain to fractions (CC.2.1.5.C.1 & CC.2.1.5.C.2)	Perform operations with multi-digit whole numbers and with decimals to hundredths. multiplication/multiply, division/division, decimal, decimal point, tenths, hundredths, products, quotients, dividends, divisor, rectangular arrays, area models, addition/add, subtraction/subtract, (properties)-rules about how numbers work, reasoning
Numerical Expressions Order of Operations Patterns	Write and interpret numerical expressions Evaluate expressions using the order of operations Generate, analyze and compare patterns (CC.2.2.5.A.1 & CC.2.2.5.A.4)	Use equivalent fractions as a strategy to add and subtract fractions. fraction, equivalent, addition/ add, sum, subtraction/subtract, difference, unlike denominator, numerator, benchmark fraction, estimate, reasonableness, mixed numbers
Coordinate Plane Two-dimensional Figures	Plot points in quadrant I Describe and interpret points given an ordered pair Identify parts of a coordinate grid Classify two-dimensional figures based on their properties (CC.2.3.5.A.1 & CC.2.3.5.A.2)	Apply and extend previous understanding of multiplication and division to multiply and divide fractions. fraction, numerator, denominator, operations, multiplication/multiply, division/divide, mixed numbers, product, quotient, partition, equal parts, equivalent, factor, unit fraction, area, side lengths, fractional sides lengths, scaling, comparing
Measurement Data Displays Volume Three-dimensional	Solve problems using simple conversions Organize and display data in order to answer questions Represent and interpret data using	Convert like measurement units within a given measurement system. conversion/convert, metric and

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Solids	<p>appropriate scale</p> <p>Solve problems involving computation with fractions using information obtained from data displays</p> <p>Apply concepts of volume to solve problems</p> <p>Relate volume to multiplication and to addition</p> <p>(CC.2.4.5.A.1, CC.2.4.5.A.2, CC.2.4.5.A.4 & CC.2.4.5.A.5)</p>	<p>customary measurement</p> <p>From previous grades: relative size, liquid volume, mass, length, kilometer (km), meter (m), centimeter (cm), kilogram (kg), gram (g), liter (L), milliliter (mL), inch (in), foot (ft), yard (yd), mile (mi), ounce (oz), pound (lb), cup (c), pint (pt), quart (qt), gallon (gal), hour, minute, second, a.m., p.m., clockwise, counter clockwise</p> <p>Present and interpret data.</p> <p>line plot, length, mass, liquid volume</p> <p>Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.</p> <p>measurement, attribute, volume, solid figure, right rectangular prism, unit, unit cube, gap, overlap, cubic units (cubic cm, cubic in. cubic ft. nonstandard cubic units), multiplication, addition, edge lengths, height, area of base</p> <p>Graph points on the coordinate plane to solve real-world and mathematical problems.</p> <p>coordinate system, coordinate plane, first quadrant, points, lines, axis/axes, x-axis, y-axis, horizontal, vertical, intersection of lines, origin, ordered pairs, coordinates, x-coordinate, y-coordinate</p> <p>Classify two-dimensional figures into categories based on their properties.</p> <p>attribute, category, subcategory, hierarchy, properties (attributes, features), defining characteristics and non-defining characteristic, , two dimensional</p> <p>From previous grades: polygon, rhombus/rhombi, rectangle, square, triangle, quadrilateral, pentagon, hexagon, cube, trapezoid, half/quarter circle, circle</p>