

## Everyday Math Alignment - Grade Six

Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 1: Collection, Display and Interpretation of Data	S - Interpret and construct bar graphs. S - Interpret and construct broken-line graphs. S - Compute and understand the mean. S - Identify statistical landmarks of data sets. S - Find equivalent names for numbers. D/S - Use a Percent Circle to interpret circle graphs. D - Match mystery line plots with descriptions. B - Interpret and construct step graphs.	Planning Ahead (CD 1); Fat Intake (CD 1); M&M's (CD 1); Environmentally-Friendly Shopper (CD 2)
Unit 2: Operations with Whole Numbers and Decimals	S - Estimate quotients and divide whole numbers. S - Add and subtract decimals. S - Read, write and compare numbers from thousandths to trillions. S - Use exponential notation for large numbers. D - Use exponential notation for small numbers. D - Interpret number and work notation for large numbers. D - Multiply by positive and negative powers of 10. D - Estimate the quotient and divide a decimal by a whole number. D - Divide two whole numbers; give the answer to a specified number of decimal places. D - Estimate products and multiply decimals. B - Translate between scientific notation and standard notation with and without a calculator.	Dog Years Dilemma (CD 1); Turkey Day (CD 1)
Unit 3: Variables, Formulas and Graphs	S - Find the greatest common factor of two numbers. S - Find the least common multiple of two numbers. S - Convert between fractions and mixed numbers. S - Represent rates with formulas, tables and graphs. S - Mentally add 1 digit positive and negative numbers. D - Evaluate algebraic expressions and formulas. D - Write algebraic expressions to represent situations. D - Interpret mystery graphs. D - Use a spreadsheet. B - Use variables to describe general patterns.	Meeting Dilemma (CD 1); Locker Dilemma (CD 1); Math Team Fundraiser (CD 2); Display Dilemma (CD 2)
Unit 4: Rational Number Operations	S - Write fractions and mixed numbers in simplest form. S - Rename numbers expressed by fractions, mixed numbers, decimals and percents. S - Compare and order fractions. S - Add and subtract fractions with like and unlike denominators. S - Add mixed numbers having fractions with like denominators. D - Find a percent of a number. D - Subtract mixed numbers having fractions with like denominators. D - Add and subtract mixed numbers having fractions with unlike denominators. D - Multiply fractions and mixed numbers. D - Represent data with circle graphs.	Sums Dilemma (CD 1); Gum - dilly - icious! (CD 2); How Many Nickels? (CD 2)

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Unit 5: Geometry: Congruence, Constructions and Parallel Lines	<p>S - Measure and draw angles using a protractor.</p> <p>S - Classify angles.</p> <p>S - Draw or form a figure congruent to a given figure.</p> <p>S - Plot ordered number pairs in four quadrant; use ordered number pairs to name points in four quadrants.</p> <p>S - Translate figures on a coordinate grid.</p> <p>S - Apply properties of sums of angle measures of triangles and quadrangles.</p> <p>D - Use a compass and straightedge to construct geometric figures.</p> <p>D - Calculate the degree measure of each sector in a circle graph; use a protractor to construct the graph.</p> <p>D - Apply properties of angles of parallelograms.</p> <p>D - Apply properties of angles formed by two parallel lines and a transversal.</p> <p>D - Apply properties of supplementary angles and vertical angles.</p>	Tan Pattern Block Angles (CD 1); Euler's Dilemma (CD 1)
Unit 6: Number Systems and Algebra Concepts	<p>S - Understand and apply the associative property for addition and multiplication.</p> <p>S - Understand and apply the commutative property for addition and multiplication.</p> <p>S - Understand and apply the identity property for multiplication.</p> <p>S - Compare and order positive and negative numbers.</p> <p>D/S - Identify number sentences as true or false.</p> <p>D/S - Perform operations in the correct order.</p> <p>D/S - Add, subtract, multiply and divide positive and negative numbers.</p> <p>D/S - Find opposites and reciprocals of numbers.</p> <p>D - Use an algorithm to add, subtract, multiply and divide fractions and mixed numbers.</p> <p>D - Solve equations.</p> <p>B - Solve and graph solutions for inequalities.</p>	Variable Dilemma (CD 1); Distribution Dilemma (CD 1)
Unit 7: Probability and Discrete Mathematics	<p>S - Understand how increasing the number of trials affects experimental results.</p> <p>S - Solve fraction of a fraction problems.</p> <p>D/S - Understand and apply the concept of random numbers to probability situations.</p> <p>D/S - Understand what constitutes a fair game.</p> <p>D/S - Calculate probability in simple situations.</p> <p>D - Construct and interpret Venn Diagrams.</p> <p>B - Understand and use probability tree diagrams.</p>	Double Dilemma (CD 1); Quiz Time (CD 2); Winning the Megabucks (CD 2)
Unit 8: Rates and Ratios	<p>S - Use rate tables to solve problems.</p> <p>D/S - Solve division problems that involve decimals.</p> <p>D/S - Estimate equivalent percents for fractions.</p> <p>D/S - Solve ratio number stories.</p> <p>D/S - Use cross multiplication to solve open proportions.</p> <p>D/S - Solve problems that involve a size-change factor.</p> <p>D - Solve percent problems.</p> <p>D - Write open proportions to model problems.</p>	Swinging Time (CD 1); Charmin Choices (CD 1); Average American (CD 2); Bake Sale (CD 2); Height Dilemma (CD 2)
Unit 9: More about Variables, Formulas and Graphs	<p>S - Evaluate expressions and formulas.</p> <p>D/S - Use formulas to solve problems.</p> <p>D/S - Write and solve equations that represent problem situations.</p> <p>D/S - Write and identify equivalent equations.</p> <p>D/S - Combine like terms to simplify expressions and equations.</p> <p>D/S - Apply the distributive property.</p> <p>D - Simplify expressions and equations with parentheses.</p>	Diagonal Decorating (CD 1); Staircase Dilemma (CD 1); Handshake Problem (CD 1)

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Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 10: Geometry Topics	No goals listed.	ABC Quilts (CD 1); An Architect Needed (CD 2); A Cloak for the Dreamer (CD 2)