

## Everyday Math Alignment - Grade Five

Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 1: Number Theory	<p>S - Draw arrays to model multiplication.</p> <p>S - Know basic multiplication facts.</p> <p>S - Identify even and odd numbers.</p> <p>S - List the factors of a number.</p> <p>D/S - Understand how square numbers and their square roots are derived.</p> <p>D/S - Identify prime and composite numbers.</p> <p>D/S - Use a divisibility test to determine if a number is divisible by another number.</p> <p>B/D - Rename numbers written in exponential notation.</p> <p>B - Find the prime factorization of numbers.</p>	<p>Dominos (CD 1)</p> <p>Equal Snacks (CD 1)</p> <p>Fish Dilemma (CD 1)</p> <p>Lost Count (CD 2)</p> <p>M&amp;M's® Cookie Combos (CD 2)</p> <p>A Very Fishy Story (CD 2)</p>
Unit 2: Estimation and Computation	<p>S - Identify the maximum, minimum, median, mode and mean for a data set.</p> <p>S - Find the sum and difference of multidigit whole numbers and decimals.</p> <p>D/S - Know place value to billions.</p> <p>D/S - Find the product of multidigit whole numbers and decimals.</p> <p>D/S - Make magnitude estimates.</p> <p>D - Round numbers to designated places.</p> <p>B - Write and solve open sentences for number stories.</p>	<p>Missing Key Dilemma (CD 1)</p> <p>More for the Money (CD 1)</p> <p>Necco® Mania (CD 1)</p> <p>Playground Fun (CD 1)</p> <p>Portfolio Pizza Party (CD 1)</p> <p>Presents (CD 1)</p> <p>Sleigh Rides (CD 1)</p> <p>Stacks of Coins (CD 1)</p> <p>Good-bye Party Fun (CD 2)</p> <p>Holiday Fair (CD 2)</p> <p>Pattern Block Thinking (CD 2)</p> <p>A Quarter from the Tooth Fairy (CD 2)</p> <p>Skating Trip (CD 2)</p>
Unit 3: Geometry Explorations and the American Tour	<p>S - Define and create tessellations.</p> <p>S - Know properties of polygons.</p> <p>S - Identify place value in numbers to billions.</p> <p>D/S - Identify types of triangles.</p> <p>D/S - Identify types of angles.</p> <p>D/S - Measure and angle to within <math>2^\circ</math>.</p> <p>D/S - Estimate the measure of an angle.</p> <p>D - Determine angle measures based on relationships between angles.</p>	<p>Blue Print (CD 1)</p> <p>Bulleting Board Border (CD 1)</p> <p>Checkerboard Investigation (CD 1)</p>
Unit 4: Division	<p>S - Know place value to hundredths.</p> <p>D - Determine the value of a variable; use this value to complete a number sentence.</p> <p>D - Interpret the remainder in division number stories.</p> <p>D - Make magnitude estimates for quotients of whole and decimal numbers divided by whole numbers.</p> <p>D - Find the quotient and remainder of a whole number divided by a 1-digit number.</p> <p>B - Write and solve number sentences with variables for division number stories.</p> <p>B - Divide decimal numbers by whole numbers with no remainders.</p>	<p>Blue Print (CD 1)</p> <p>Equal Snacks (CD 1)</p> <p>Missing Key Dilemma (CD 1)</p> <p>Presents (CD 1)</p> <p>Raccoons (CD 1)</p> <p>Sleigh Rides (CD 1)</p> <p>Stacks of Coins (CD 1)</p> <p>The Tower Problem (CD 1)</p> <p>Chick-a-Dee-Dee Problem (CD 2)</p> <p>Good-bye Party Fun (CD 2)</p> <p>Starring the Washington Monument (CD 2)</p>

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Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 5: Fractions, Decimals and Percents	<p>D - Develop a circle graph for a set of data.            D - Convert between fractions and percents.            D - Order and compare fractions.            B/D - Add fractions with like denominators.            D - Develop a circle graph for a set of data.            D - Convert between fractions and percents.            D - Order and compare fractions.            B/D - Add fractions with like denominators.</p>	<p>Deluxe Birthday Cake (CD 1)            Disappearing Cookies (CD 1)            The Early Bird Catches the Worm (CD 1)            Great Pizza Dilemma (CD 1)            Harvest Dinner (CD 1)            Is Dan Losing His Marbles? (CD 1)            Necco® Mania (CD 1)            New Year's Party (CD 1)            A Problem on the Prairie (CD 1)            Should We Burst Their Bubble? (CD 1)            Theodore Bear (CD 1)            Valentine Candy Challenge (CD 1)            What is Fair? (CD 1)            Book Club (CD 2)            A Fair Snack? (CD 2)            Feverish Freddy, Version 1 (CD 2)            Fun Night (CD 2)            Ollie Owl's Food Court (CD 2)            Superbowl Sunday (CD 2)            Taco Spread (CD 2)            Who Owns the Most Land? (CD 2)</p>
Unit 6: Using Data, Addition and Subtraction of Fractions	<p>S - Find and use all data landmarks.            D/S - Convert among fractions, decimals and percents.            D - Find a common denominator.            D - Understand how sample size affects results.            D - Add and subtract fractions with unlike denominators.            D - Add and subtract fractions with common denominators.            B/D - Read and interpret stem-and-leaf plots.            B/D - Construct stem-and-leaf plots.</p>	<p>Busy Day (CD 1)            Deluxe Birthday Cake (CD 1)            Great Pizza Dilemma (CD 1)            Harvest Dinner (CD 1)            M&amp;M® Mini-Bus Challenge (CD 1)            Making a Fair Decision (CD 1)            A Problem on the Prairie (CD 1)            Spring Seeds (CD 1)            To the Detail (CD 2)            Don't Let the Bed Bugs Bite! (CD 2)            Fair's Fair? (CD 2)            A Lucky Draw (CD 2)            Taco Spread (CD 2)</p>
Unit 7: Exponents and Negative Numbers	<p>D/S - Order and compare positive and negative numbers.            D/S - Understand and apply the use of parentheses in number sentences.            D/S - Identify number sentences. Tell whether a number sentence is true or false.            D/S - Understand and apply exponential notation.            D - Add and subtract positive and negative numbers.            D - Understand and apply order of operations to evaluate expressions and solve number sentences.            D - Understand and apply powers of 10.            B/D - Understand and apply scientific notation.</p>	<p>Raccoons (CD 1)            The Tower Problem (CD 1)            Chich-a-Dee-Dee Problem (CD 2)            Starring the Washington Monument! (CD 2)</p>

## Everyday Math Alignment - Grade Five (page 3)

Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 8: Fractions and Ratios	<p>S - Find common denominators.            S - Convert between fractions and mixed or whole numbers.            S - Convert among fractions, decimals, and percents.            D/S - Order and compare fractions.            D/S - Use an algorithm to add mixed numbers.            D - Find a percent of a number.            D - Use an algorithm to subtract mixed numbers with like denominators.            D - Use an algorithm to multiply fractions.            B - Use an algorithm to multiply mixed numbers.</p>	<p>Deluxe Birthday Cake (CD 1)            Disappearing Cookies (CD 1)            Great Pizza Dilemma (CD 1)            Harvest Dinner (CD 1)            Is Dan Losing His Marbles? (CD 1)            A Problem on the Prairie (CD 1)            Raccoons (CD 1)            The Tower Problem (CD 1)            Book Club (CD 2)            Chich-a-Dee-Dee Problem (CD 2)            Starring the Washington Monument! (CD 2)            Taco Spread (CD 2)</p>
Unit 9: Coordinates, Area, Volume and Capacity	<p>D/S - Plot ordered pairs on a one-quadrant coordinate grid.            D - Use a formula to find the volume of prisms.            D - Understand the concept of volume of a figure.            D - Plot ordered pairs on a four-quadrant coordinate grid.            D/S - Plot ordered pairs on a one-quadrant coordinate grid.            D - Use a formula to find the volume of prisms.            D - Understand the concept of volume of a figure.            D - Plot ordered pairs on a four-quadrant coordinate grid.</p>	<p>Carpet Capet (CD 1)            Miss Guy's Puppy Problem (CD 1)            Mrs. Hasson's Decorating Dilemma (CD 1)            Post Office Display (CD 1)            Sandbox for Geoffrey (CD 1)            Shovel, Shovel, Shovel (CD 1)            Tangram Areas - Grandfather Tang's Story (CD 1)            Two-Inch Square (CD 1)            Cookie Cutters (CD 2)            Got Milk? (CD 2)            A Stinky Situation (CD 2)            Valentine's Day Cards (CD 2)</p>
Unit 10: Algebra Concepts and Skills	<p>D/S - Interpret mystery line plots and graphs.            D/S - Solve one-step pan balance problems.            D - Distinguish between circumference and area of circle problems.            D - Use formulas to find circumference and area of a circle.            D - Represent rate problems as formulas, graphs, and tables.            D - Write algebraic expressions to describe situations.            B - Solve two-step pan-balance problems.</p>	<p>Ant in the Well (CD 1)            Kwanza Celebration (CD 1)            Miss Amico's Birthday Bash (CD 1)            Penny a Day (CD 1)            Return of the Pandas (CD 1)            Spring Seeds (CD 1)            Winning Ticket (CD 1)</p>
Unit 11: Volume	<p>S - Know the properties of geometric solids.            S - Use formulas to find the area of polygons and circles.            D/S - Use formulas to find the volume of prisms and cylinders.            B - Understand the concept of capacity and how to calculate it.            B - Understand how to find the surface area of cylinders.            B - Find the surface area of prisms.            B - Understand the relationship between the volume of pyramids and prisms, and the volume of cones and cylinders.</p>	<p>Blue Print (CD 1)            Party Seating (CD 1)            Stained Glass Surprise (CD 1)            Tangram Money (CD 1)            Terrific Tiles (CD 1)            Zeno the Xylophone Maker (CD 1)            Bridge Building on Lake Champlain (CD 2)            Got Milk? (CD 2)            A Stinky Situation (CD 2)</p>

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Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 12: Probability, Ratios and Rates	<p>S - Find the prime factorizations of numbers.</p> <p>S - Find and identify factors of numbers.</p> <p>D/S - Solve ratio and rate numbers stories.</p> <p>D - Find the least common multiple of two numbers.</p> <p>D - Find the greatest common factor of two numbers.</p> <p>B/D - Use the Multiplication Counting Principal to find the total number of possible outcomes of a sequence of choices.</p> <p>B - Compute the probability of outcomes when choices are equally likely.</p> <p>B - Use tree diagrams to find all possible ways a sequence of choices can be made.</p>	<p>Chocolate Chip Cookie Rubric (CD 1)</p> <p>Dominos (CD 1)</p> <p>The Early Bird Catches the Worm (CD 1)</p> <p>Filling the Pool (CD 1)</p> <p>Fish Dilemma (CD 1)</p> <p>I Did-A-Read (CD 1)</p> <p>Job Hunting (CD 1)</p> <p>Should We Burst Their Bubble? (CD 1)</p> <p>Lost Count (CD 2)</p> <p>M&amp;M's® Cookie</p> <p>Combos (CD 2)</p> <p>Meddling with the Medals (CD 2)</p> <p>"Planely" a Problem (CD 2)</p> <p>A Very Fishy Story (CD 2)</p>