

Everyday Math Alignment - Grade Four

Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 1: Naming and Constructing Geometric Figures	<p>S - Name, draw and label line segments, lines and rays.</p> <p>S - Name, draw, and label angles, triangles and quadrangles.</p> <p>S - Identify and describe right angles and parallel lines and line segments.</p> <p>S - Solve addition and subtraction facts.</p> <p>D - Classify quadrangles according to side and angle properties.</p> <p>D - Identify properties of polygons.</p> <p>B - Use a compass and straightedge to construct geometric figures.</p>	Ollie Owl'S Food Court (CD 2); Feverish Freddy, Version I (CD 2)
Unit 2: Using Numbers and Organizing Data	<p>S - Use the statistical landmarks maximum and minimum.</p> <p>S - Have a successful strategy for subtracting multidigit numbers.</p> <p>S - Read and write numerals to hundred-millions; give the value of the digits in numerals to hundred-millions.</p> <p>S - Give equivalent names for numbers.</p> <p>D - Use the statistical landmarks median, mode and range.</p> <p>D - Display data with a line plot, bar graph or tally chart.</p>	Necco Mania (CD 1); Presents (CD 1); Dan's Marbles (CD 1)
Unit 3: Multiplication and Division: Number Sentences and Algebra	<p>S - Solve basic division facts.</p> <p>S - Solve basic multiplication facts.</p> <p>S - Understand the relationship between multiplication and division.</p> <p>D - Use a map scale to estimate distances.</p> <p>D - Use and explain strategies for solving addition and subtraction number stories.</p> <p>D - Determine whether number sentences are true or false.</p> <p>D - Insert parentheses to make true number sentences. Solve problems with parentheses.</p> <p>D - Solve open sentences.</p>	Shopping for Shoes (CD 1); Fish Dilemma (CD 1); What's the Problem (CD 1)
Unit 4: Decimals and their Uses	<p>S - Draw and measure line segments to the nearest centimeter.</p> <p>S - Use dollar and cents notation.</p> <p>D - Express metric measures with decimals.</p> <p>D - Convert between metric measures.</p> <p>D - Read and write decimals to thousandths.</p>	Tangram Areas - Grandfather Tang's Story (CD 1); Zeno the Xylophone Maker (CD 1)
Unit 5: Big Numbers, Estimations and Computation	<p>S - Compare large numbers.</p> <p>S - Estimate sums.</p> <p>D - Solve extended multiplication facts.</p> <p>D - Make magnitude estimates for products of multidigit numbers.</p> <p>D - Solve multidigit multiplication problems.</p> <p>D - Round whole numbers to a given place.</p> <p>D - Read and write numbers to billions; name the values of digits in numerals to billions.</p> <p>B - Use exponential notation to represent powers of 10.</p>	Winning Ticket (CD 1); The Tower Problem (CD 1); Penny a Day (CD 1)

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Unit 6: Division, Map Reference Frames, Measures of Angles	<p>D - Have a successful strategy for solving whole-number division problems.</p> <p>D - Express the remainder of a whole-number division problem as a fraction and the answer as a mixed number.</p> <p>D - Interpret the remainder in division problems.</p> <p>D - Name and locate points specified by ordered number pairs on a coordinate grid.</p> <p>D - Identify acute, right, obtuse, straight and reflex angles.</p> <p>D - Make turns and fractions of turns; relate turns to fractions and angles.</p> <p>D - Use a circular protractor and a half-circle protractor to measure and draw angles.</p> <p>D - Use and explain strategies for solving multiplication and division number stories.</p> <p>B - Identify locations on Earth for which latitude and longitude are given; find latitude and longitude for given locations.</p>	<p>I Did-a-Read (CD 1);</p> <p>Tan Pattern Block Angles (CD 1);</p> <p>Who Owns the Most Land? (CD 2)</p>
Unit 7: Fraction Concepts, Notation and Uses	<p>S - Identify the whole for fractions.</p> <p>S - Identify fractional parts of a collection of objects.</p> <p>S - Identify fractional parts of regions.</p> <p>B - Add and subtract fractions.</p> <p>D - Rename fractions with denominators of 10 and 100 as decimals.</p> <p>D - Apply basic vocabulary and concepts associated with chance events.</p> <p>D - Compare and order fractions.</p> <p>D - Find fractions equivalent to a given fraction.</p>	<p>Problem on the Prairie (CD 1);</p> <p>Great Pizza Dilemma (CD 1)</p>
Unit 8: Perimeter and Area	<p>B - Make and interpret scale drawings.</p> <p>D - Use formulas to find areas of rectangles, parallelograms and triangles.</p> <p>D - Find the perimeter of a polygon.</p> <p>D - Estimate the area of a figure by counting unit squares and fractions of unit squares inside the figure.</p>	<p>Grandfather Tang's Story; Terrific Tiles (CD 1);</p> <p>Stained Glass Surprise (CD 1);</p> <p>Miss Guy's Puppy Problem (CD 1)</p>
Unit 9: Percents	<p>S - Use a calculator to rename any fraction as a decimal or percent.</p> <p>S - Give equivalencies between hundredths-fractions, decimals and percents.</p> <p>D - Give equivalencies between "easy" fractions (fourths, fifths and tenths) decimals and percents.</p> <p>D - Find a percent or a fraction of a number.</p> <p>B - Use an estimation strategy to multiply decimals by whole numbers.</p> <p>B - Use an estimation strategy to divide decimals by whole numbers.</p>	<p>Dependable Parent (CD 1);</p> <p>Volunteers (CD 2)</p>
Unit 10: Reflections and Symmetry	<p>S - Identify lines of symmetry, line of reflection, reflected figures, and figures with line symmetry.</p> <p>S - Use a transparent mirror to draw the reflections of a figure.</p> <p>D - Translate figures.</p> <p>D - Rotate figures.</p> <p>D - Add integers.</p>	<p>Ollie's Owl Food Court (CD 2);</p> <p>Cookie Cutters (CD 2)</p>
Unit 11: Shapes, Weight, Volume and Capacity	<p>D - Describe properties of geometric solids.</p> <p>D - Solve cube stacking volume problems.</p> <p>D - Estimate the weight of objects in ounces or grams; weigh objects in ounces or grams.</p> <p>B/D - Add/subtract positive/negative integers.</p> <p>B - Use a formula to calculate the volume of rectangular prisms.</p>	<p>Filling Boxes (CD 1);</p> <p>Wrapping Mom's Lamp (CD 1);</p> <p>Planely a Problem (CD 2)</p>

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Everyday Math Unit	Math Concepts	Exemplars Problems
Unit 12: Rates	S - Solve rate problems, using rate tables as necessary. D - Collect and compare rate data. D - Evaluate the reasonableness of rate data. D - Calculate unit prices to determine which product is the "better buy". D - Find unit rates.	More for the Money (CD 1); Should We Burst Their Bubble? (CD 1); Taco Spread (CD 2)