

O.A. Thorp Scholastic Academy - Student Individualized Learning Path

Student Name: «FIRST_NAME» «LAST_NAME» Grade: «GRADE» HR: «HMRM» Current Math RIT: «M_1213_Rdg_Fall»	Math Grades 2 – 5 NWEA Strand Goals: Operations and Algebraic Thinking, Number and Operations in Base Ten, Number & Operations: Fractions, Measurement and Data, Geometry
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Below 221 - Operations and Algebraic Thinking

<input type="checkbox"/> Demonstrates an understanding of the inverse relationship between addition and subtraction <input type="checkbox"/> Uses algebraic reasoning to solve problems involving equality relationships <input type="checkbox"/> Solves open sentences with calculations on both sides of the sentence <input type="checkbox"/> Uses number sense strategies to solve problems (multiplication/division) <input type="checkbox"/> Models whole number multiplication and division algorithms (e.g., uses physical materials to show 4 groups of 3 objects) <input type="checkbox"/> Solves problems using the inverse relationship between multiplication and division <input type="checkbox"/> Solves whole number word problems with division over 10 x 10 <input type="checkbox"/> Solves complex word problems involving whole number division with remainder (e.g., 2-step, 2-digit divisor) <input type="checkbox"/> Uses simple linear equations to represent problem situations <input type="checkbox"/> Solves simple open sentences with missing factors (numbers over 100) <input type="checkbox"/> Solves 2-step open sentences with missing factors <input type="checkbox"/> Looks for a growing pattern to solve a problem	<input type="checkbox"/> Solves real-world problems using reasoning strategies <input type="checkbox"/> Determines factors of whole numbers <input type="checkbox"/> Identifies numbers as prime <input type="checkbox"/> Solves real-world problems involving 2-step multiple operations, whole numbers only <input type="checkbox"/> Solves real-world multiple-step problems involving whole numbers <input type="checkbox"/> Extends a repeating pattern of geometric shapes in a grid <input type="checkbox"/> Extends a growing geometric pattern - using numbers <input type="checkbox"/> Extends a pattern formed by two arithmetic growing patterns - odd and even terms (such as 1,5,4,8,7,...) <input type="checkbox"/> Extends, or completes, growing patterns defined by equations or number facts <input type="checkbox"/> Extends a growing pattern of numbers - explicit quadratic rule - recursive rule is to add x more each time (such as 1,2,4,7,...) <input type="checkbox"/> Identifies rules and applies them to new patterns <input type="checkbox"/> Applies algebraic methods to solve theoretical problems <input type="checkbox"/> Vocabulary: proof <input type="checkbox"/> Signs and Symbols: ? a variable, long division symbol, ? next in sequence, R remainder
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Below 221 - Number and Operations in Base Ten

<input type="checkbox"/> Identifies whole numbers 100 - 999 using 2-D and 3-D models <input type="checkbox"/> Identifies whole numbers over 999 using 2- and 3-D models <input type="checkbox"/> Rounds 4-, 5-, and 6-digit whole numbers to the nearest hundred <input type="checkbox"/> Rounds 4-, 5-, and 6-digit whole numbers to the nearest thousand	<input type="checkbox"/> Subtracts numbers with 5 digits or more with regrouping <input type="checkbox"/> Instantly recalls basic multiplication and division facts in a table <input type="checkbox"/> Multiplies a 3-digit number by a 2-digit number with regrouping <input type="checkbox"/> Performs mental computation with multiplication
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<ul style="list-style-type: none"> <input type="checkbox"/> Rounds 4-, 5-, and 6-digit whole numbers to the nearest ten thousand <input type="checkbox"/> Writes whole numbers in standard and expanded form through the hundred thousands <input type="checkbox"/> Represents a decimal to the hundredths place (e.g., three hundredths = 0.03) <input type="checkbox"/> Rounds decimals to the nearest whole number <input type="checkbox"/> Rounds decimals to the nearest tenth <input type="checkbox"/> Writes a fraction or mixed number as a decimal when the denominator is a multiple of 10 <input type="checkbox"/> Uses rounding to estimate answers to real-world problems involving multiplication and division of numbers less than 100 (whole numbers only) <input type="checkbox"/> Uses rounding to estimate answers to real-world problems involving numbers less than 1000 with multiplication and division (whole numbers only) <input type="checkbox"/> Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only) <input type="checkbox"/> Multiplies a 3-digit number by a 3-digit number <input type="checkbox"/> Multiplies a 4- or more digit number by multiples of 100 or 1000 <input type="checkbox"/> Multiplies multiple-digit numbers 	<ul style="list-style-type: none"> <input type="checkbox"/> Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder <input type="checkbox"/> Divides a 4-digit number by a 1-digit number with no remainder <input type="checkbox"/> Divides a 3-digit number by a 2-digit number <input type="checkbox"/> Divides a 4-digit number by a 2-digit number <input type="checkbox"/> Recognizes multiplication and division fact families <input type="checkbox"/> Adds decimals to the hundredths place in horizontal format (not same number of digits) <input type="checkbox"/> Adds decimals to the thousandths place horizontally with and without regrouping <input type="checkbox"/> Adds decimals through the hundred-thousandths place <input type="checkbox"/> Subtracts decimals to the thousandths place, vertically, with the zero missing in the ones place <input type="checkbox"/> Subtracts decimals to the thousandths place, horizontally, with and without regrouping <input type="checkbox"/> Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) <input type="checkbox"/> Multiplies a decimal by a decimal (factors to hundredths) <input type="checkbox"/> Divides decimal by a whole number <input type="checkbox"/> Vocabulary: none <input type="checkbox"/> Signs and Symbols: none
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Below 221 - Number & Operations: Fractions	
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<ul style="list-style-type: none"> <input type="checkbox"/> Identifies a fractions in lowest terms from a region or set <input type="checkbox"/> Identifies eighths, reduced to lowest terms, from a region or set <input type="checkbox"/> Expresses "1" in many different ways (e.g., 3/3, 4/4) 	<ul style="list-style-type: none"> <input type="checkbox"/> Adds simple mixed fractions with unlike denominators (e.g., halves, thirds, fourths, eighths) <input type="checkbox"/> Subtracts simple fractions with unlike denominators without reducing (e.g., halves, quarters, thirds, eighths)
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<ul style="list-style-type: none"> <input type="checkbox"/> Determines simple equivalent fractions using multiples <input type="checkbox"/> Converts fractions to lowest terms <input type="checkbox"/> Writes mixed numbers as improper fractions and improper fractions as mixed numbers <input type="checkbox"/> Compares fractions on a number line <input type="checkbox"/> Compares fractions greater than or less than a given fraction using visual representations <input type="checkbox"/> Compares fractions and mixed numbers <input type="checkbox"/> Compares fractions and mixed numbers using symbols <input type="checkbox"/> Explains different interpretations of fractions (e.g., parts of a whole, parts of a set, and division of whole numbers by whole numbers) <input type="checkbox"/> Expresses a simple fraction as a decimal <input type="checkbox"/> Solves problems involving equivalent fractions <input type="checkbox"/> Adds fractions with like denominators without reducing <input type="checkbox"/> Adds fractions with like denominators with reducing or converting to a mixed fraction 	<ul style="list-style-type: none"> <input type="checkbox"/> Adds fractions with unlike denominators without reducing <input type="checkbox"/> Subtracts fractions with unlike denominators without reducing <input type="checkbox"/> Subtracts mixed fractions with like denominators with no regrouping <input type="checkbox"/> Subtracts mixed fractions with unlike denominators with no regrouping <input type="checkbox"/> Solves real-world problems involving addition and subtraction of fractions where converting one denominator is necessary <input type="checkbox"/> Multiplies a fraction by a fraction where reducing to simplest form is necessary <input type="checkbox"/> Multiplies a fraction by a whole number <input type="checkbox"/> Solves 1-step real-world problems involving fractions with multiplication and division <input type="checkbox"/> Vocabulary: lowest term, lowest terms, reduce, triple <input type="checkbox"/> Signs and Symbols: > greater than, < less than, ≠ not equal to, % percent
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Below 221 - Measurement and Data	
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<ul style="list-style-type: none"> <input type="checkbox"/> Computes the value of multiple bills and coins (addition/subtraction only) <input type="checkbox"/> Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) <input type="checkbox"/> Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) <input type="checkbox"/> Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) <input type="checkbox"/> Computes addition and subtraction on multiple-step real-world problems involving money 	<ul style="list-style-type: none"> <input type="checkbox"/> Converts between cups, pints, quarts, and gallons <input type="checkbox"/> Selects and uses protractors for measuring angles <input type="checkbox"/> Determines the perimeter of a figure using non-standard units <input type="checkbox"/> Solves problems involving the perimeter of squares, rectangles, or triangles <input type="checkbox"/> Finds the perimeter of a polygon using a formula <input type="checkbox"/> Determines the process for calculating perimeter <input type="checkbox"/> Determines the area of irregular shapes with partial square
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<ul style="list-style-type: none"> <input type="checkbox"/> Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money <input type="checkbox"/> Solves 1-step problems involving proportions <input type="checkbox"/> Knows the approximate size of a kilometer <input type="checkbox"/> Measures length to the nearest quarter of an inch <input type="checkbox"/> Converts between inches and feet <input type="checkbox"/> Converts between inches, feet, and yards <input type="checkbox"/> Solves simple problems involving measurement of length <input type="checkbox"/> Apply dimensional analysis to simple real-world problems (length) <input type="checkbox"/> Selects and uses the appropriate type and size of unit in metric system (mass) <input type="checkbox"/> Solves simple problems involving measurement of weight <input type="checkbox"/> Knows the approximate size of a gallon <input type="checkbox"/> Apply dimensional analysis to simple real-world problems (capacity) 	<ul style="list-style-type: none"> units <input type="checkbox"/> Applies dimensional analysis to simple real-world problems (time) <input type="checkbox"/> Solves difficult problems involving elapsed time, with the conversion of hours <input type="checkbox"/> Solves simple problems involving miles per gallon <input type="checkbox"/> Estimates and finds volume of a figure using cubic units <input type="checkbox"/> Solves problems using pictographs <input type="checkbox"/> Solves problems using bar graphs <input type="checkbox"/> Predicts from pictographs and bar graphs <input type="checkbox"/> Vocabulary: coin, how long, micrometer, protractor <input type="checkbox"/> Signs and Symbols: \$ dollar sign, ÷ division, fl oz fluid ounce, hr hour, kg kilogram, lb pound, measurement span down, measurement span left, measurement span right, measurement span up, x multiplication, P perimeter, - subtraction
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Below 221 - Geometry

<ul style="list-style-type: none"> <input type="checkbox"/> Identifies properties of angles <input type="checkbox"/> Identifies and names a quadrilateral <input type="checkbox"/> Identifies corners (vertices) of cubes <input type="checkbox"/> Identifies and names a rectangular prism <input type="checkbox"/> Predicts and verifies the effects of combining or subdividing basic shapes <input type="checkbox"/> Compares simple plane figures to solid figures (e.g., circle/sphere, square/cube, rectangle/rectangular solid) <input type="checkbox"/> Identifies rays <input type="checkbox"/> Identifies perpendicular lines <input type="checkbox"/> Identifies acute angles 	<ul style="list-style-type: none"> <input type="checkbox"/> Identifies obtuse angles <input type="checkbox"/> Classifies polygons by type of angle <input type="checkbox"/> Classifies polygons by number of sides <input type="checkbox"/> Classifies plane figures by the number of lines of symmetry <input type="checkbox"/> Determines the distance between horizontal and vertical lines in the first quadrant of a rectangular coordinate system <input type="checkbox"/> Locates the origin on a coordinate grid <input type="checkbox"/> Vocabulary: acute angle, congruent angle, geometric solid, obtuse angle, straight angle, union <input type="checkbox"/> Signs/Symbols: < angle, angle marker (arc), ° degrees
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