

Topic/Unit Planner

Teacher (s): Weber
Subject: Mathematics

Grade: 5

Topic/sub-topics	Essential Learning	Standards	Performance Assessment	Resources
Decimals Guess and Check Working Backward Place Value Addition and subtraction of whole numbers and decimals	<p>Understandings (SWUT): (Students will understand that...)</p> <p>Digits within numbers have a specific place value Numbers can be written in standard, expanded and word form Answers can be obtained using the guess and check & working backwards methods Basic addition and subtraction</p>	6.A.2 6.B.2 6.C.2 6.C.2.b 6.A.2 6.C.2.a	Daily homework Pretests and tests Board work	Macmillan/ McGraw Hill IL Math Connects Text & workbook Sadlier Oxford Progress in Mathematics Workbook
	<p>Skills (SWBAT): (Students will be able to...)</p> <p>Determine the place value of any digit in a number Work word problems using a variety of methods Write numbers in standard, expanded and word forms. Do basic addition and subtraction of whole numbers and decimals</p>			

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Multiplication of whole numbers and decimals Division of whole numbers Interpreting the remainder Algebraic expressions Function Machines Order of Operations	Understandings (SWUT): (Students will understand that...) Multiplication follows a pattern Products can be estimated by using rounding or compatible numbers Remainders are important to interpret in word problems Variables represent unknown quantities A function machine can be used to solve problems Equations must be solved in a specific order	8.A.2.a 6.B.2 8.C.2 6.C.2.b 6.C.2.a 10.B.2.d	Daily homework Pretests and tests Board work	Macmillan/ McGraw Hill IL Math Connects Text & workbook Sadlier Oxford Progress in Mathematics Workbook
	Skills (SWBAT): (Students will be able to...) Solve multiplication and division problems Interpret in word problems what to do with the remainder Understand how variables work in simple algebraic expressions Solve equations using the correct order of operations			

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Graphing functions Median, Range and Mode Line Plots Line and Bar Graphs	Understandings (SWUT): (Students will understand that...) You can solve problems by making a table Line graphs consist of a pair of ordered points Data has a median, range and mode Using data, they can make and interpret line and bar graphs	8.A.2.b 8.D.2 10.B.2.b 8.B.3 9.A.3.b 10.A.2.b 10.B.2.c 10.A.2a 10.B.2.d 10.A.2.c	Daily homework Pretests and tests Board work	Macmillan/ McGraw Hill IL Math Connects Text & workbook Sadlier Oxford Progress in Mathematics Workbook
	Skills (SWBAT): (Students will be able to...) Figure the median, range and mode for a set on numbers Draw and interpret bar and line graphs when given data Know what type of graph and what scale to use for given data			

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Topic/sub-topics	Essential Learning	Standards	Performance Assessment	Resources
Mixed numbers to improper fractions Prime & composite numbers Rounding fractions Equivalent fractions Reducing fractions Decimals to fractions Multiples Adding and subtracting fractions	Understandings (SWUT): (Students will understand that...) Numbers may be composed of factors Fractions are rounded in the same manner as whole numbers Different fractions can be equal to each other & may be reduced Fractions can be changed into decimals and vice versa To add or subtract fractions, they must have a common denominator	6.B.3.b 6.A.2 6.B.2 6.D.2 6.C.2.a 6.C.2.b	Daily homework Pretests and tests Board work	Macmillan/ McGraw Hill IL Math Connects Text & workbook Sadlier Oxford Progress in Mathematics Workbook
	Skills (SWBAT): (Students will be able to...) Identify prime and composite numbers Identify common factors and use them to reduce fractions Write decimals as fractions Add and subtract fractions			

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Multiplying fractions Cancellation Customary Measurement Metric Measurement	<p>Understandings (SWUT): (Students will understand that...) When you multiply fractions, your answers get smaller Cancellation makes multiplication much easier Customary measurements can be converted to other measures using either multiplication or division The metric system is another way to measure things</p>	6.B.2 6.B.3.b 7.A.2.a 7.B.2.b 7.B.2.a 6.C.2.a	Daily homework Pretests and tests Board work	Macmillan/ McGraw Hill IL Math Connects Text & workbook Sadlier Oxford Progress in Mathematics Workbook Metric tools
	<p>Skills (SWBAT): (Students will be able to...) Multiply fractions and then reduce them to simplest form Use cancellation whenever possible Convert units of length, weight, volume and time Determine elapsed time Measure using metric units and convert metric units of measurement</p>			

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Topic/sub-topics	Essential Learning	Standards	Performance Assessment	Strategies
Geometry vocabulary Angles & triangles Using a protractor Quadrilaterals Translations Perimeter, area and volume	Understandings (SWUT): (Students will understand that...) There are many types of angles, triangles and quadrilaterals Angles can be measured using a protractor Lines have properties Using simple formulas you can determine the perimeter, area and volume of 2 and 3 dimensional figures	9.A.2.c 9.A.2.b 9.A.3.b 9.B.2 7.A.2.a 7.C.2.b 7.B.2.a 9.A.2.a	Daily homework Pretests and tests Board work	Macmillan/ McGraw Hill IL Math Connects Text & workbook Sadlier Oxford Progress in Mathematics Workbook
	Skills (SWBAT): (Students will be able to...) Identify types of angles, triangles and quadrilaterals Measure and draw angles with a protractor Tell if lines are parallel, perpendicular, similar or congruent Determine the perimeter, area and volume of figures			