Math Curriculum Mapping
Grade: Six
Subject: Math

Month	Content	Skills	Vocabulary	Assessments	Standards
September	Whole Numbers ~ Chapter 1	• Compare and order whole numbers using place value or a number line. (1-1) • Estimate with whole numbers. (1-2)	-Compatible number -Underestimate -Overestimate	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Unit 1-A Quiz (*Comparing & ordering whole numbers, estimating, & Exponents* • Problem Solving WS • Chapter test (*Unit 1-A concepts & order of operations, properties, converting words to mathematical expressions)*	6 N.2 (Analyze) 6 N.3 (Evaluation)
September	Exponents ~ Chapter 1	• Write numbers using exponents. (1-3)	- exponent - base - exponential form	• AM Diagnostic Test	6.A.1.2. Students are able to write algebraic expressions involving addition or multiplication using whole numbers. (Application)
September	Order of Operations ~ Chapter 1	• Evaluate numerical expressions containing more than one operation. (1-4)	- numerical expression - evaluate - order of operations		6.A.1.1. Students are able to use order of operations, excluding nested parentheses and exponents, to simplify whole number expressions. (Evaluation)
September	Number Properties ~ Chapter 1	• Use number properties to compute mentally. (1-5) • Identify the commutative, associative & distributive property when given a number sentence. (1-5)	- commutative property - associative property - distributive property		(Application) (Comprehension)

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September	Problem Solving ~ Chapter 1	• Choose best operation (add or subtract) (1-6) • Convert words to mathematical expressions. (1-6) • Identify too much or too little information. (1-6)			6.A.1.2. Students are able to write algebraic expressions involving addition or multiplication using whole numbers. (Application)
October	Variables & Expressions ~ Algebra Chapter 2	• Define variable, constant, and algebraic expression. (2-1) • Identify and evaluate expressions. (2-1) • Translate between words & math. (2-2)	-Variable -Constant -Algebraic expression	• Hands-On Algebra manipulatives • Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Quiz 2-A (*Solving for variables, evaluating expressions, translating words into math expressions)*	(Knowledge) 6.A.4.1. Students are able to use concrete materials, graphs and algebraic statements to represent problem situations. (Comprehension)
October	Equations ~ Chapter 2	• Determine whether a number is a solution of an equation. (2-3) • Solve whole- number addition equations. (2-4) • Solve whole- number subtraction equations. (2-5) • Solve whole-number multiplication equations. (2-6) • Solve whole-number division equations. (2-7)	-Equation -solution	• Quiz 2-B (*Solving addition and subtraction equations*) • Quiz 2-C (*Solving multiplication and division equations with whole numbers*) • Ch. 2 Test • AM Diagnostic Test • AM Practice	6.A.2 (Analysis) 6.A.2.1. Students are able to write and solve one-step 1st degree equations, with one variable, involving inverse operations using the set of whole numbers. (Application)

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Month	Content	Skills	Vocabulary	Assessments	Standards
October	Understanding Decimals ~ Chapter 3	• Write, compare, and order decimals using place value and number lines. (3-1)		• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups	6.N.1 (Analysis) Introduced, not mastered.
October	Adding and Subtracting Decimals ~ Chapter 3	• Add and subtract decimals. (3-3)		• Quiz 3A (*Comparing, ordering decimals, adding & subtracting decimals*)	6.N.2.1. Students are able to add, subtract, multiply, and divide decimals. (Comprehension)
November	Decimals and Metric Measurement ~ Chapter 3	• Multiply and divide decimals by powers of ten and convert metric measurements. (3-4)	-Scientific notation	• Quiz 3-B *(Metric measurements & scientific notation)*	6.M.1.1. Students are able to select, use, and convert appropriate unit of measurement for a situation. (Comprehension)
November	Multiplying and dividing decimals ~ Chapter 3	• Write large numbers in scientific notation. (3-5) • Multiply decimals by whole numbers and by decimals. (3-6) • Divide decimals by whole numbers. (3-7) • Divide whole numbers and decimals by decimals. (3-8) • Solve problems by interpreting the quotient. (3-9)		• Quiz 3-C (*Multiplying and dividing with decimals and interpreting quotients; solve equations with inverse operations)*	6.N.2.1. Students are able to add, subtract, multiply, and divide decimals. (Comprehension) (Comprehension) (Comprehension) (Application)
November	Decimal Equations ~ Chapter 3	• Solve subtraction, multiplication, and division equations involving decimals using the inverse operations addition, division, and multiplication, respectively. (3-10)		• Ch. 3 Test • AM Diagnostic Test • AM Practice	6.A.2.1. Students are able to write and solve one-step 1st degree equations, with one variable, involving inverse operations using the set of whole numbers. (Application)

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December	Number Theory ~ Chapter 4	• Use divisibility rules to determine if a number is divisible by 2,3,4,5,6, 9, and 10. (4-1) • Write prime factorizations of composite numbers. (4-2) • Find the greatest common factor (GCF) of a set of numbers. (4-3)	-Divisible -Composite Number -Prime Number -Factor -Prime Factorization -Greatest Common Factor (GCF)	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Quiz 4-A (*Divisibility, Prime & composite numbers, and GCF)*	6.N.1.2. Students are able to find factors and multiples of whole numbers. (Application) (Application) (Application)
December	Understanding Fractions ~ Chapter 4	• Convert between decimals and fractions. (4-4) • Write equivalent fractions and mixed numbers. (4-5) • Use pictures and number line to compare and order fractions. (4-6) • Convert between mixed numbers and improper fractions. (4-7)	-mixed number -terminating decimal -repeating decimal -equivalent fractions -simplest form -like fractions -unlike fractions -common denominator -improper fraction -proper fraction	• Quiz 4-B *(Decimal and fraction equivalents, equivalent fractions, compare & order fractions, and improper fractions)*	6.N.1.1. Students are able to represent fractions in equivalent forms and convert between fractions, decimals, and percents using halves, fourths, tenths, hundredths. (Application)
January	Fraction Operations ~ Chapter 4	• Add and subtract fractions with like denominators. (4-8) • Multiply fractions by whole numbers. (4-9)		• Quiz 4-C (Add & subtract like fractions) • Ch. 4 Test • AM Diagnostic Test • AM Practice	6.N.2.1. Students are able to add, subtract, multiply, and divide decimals. (Comprehension) (Introduced, not mastered)
January	Multiplying and Dividing Fractions ~ Chapter 5	• Multiply fractions. (5-1) • Multiply mixed numbers. (5-2) • Divide fractions and mixed numbers. (5-3) • Solve equations by multiplying and dividing fractions. (5-4)	-reciprocal	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups	6.N.2.1 (Comprehension) (Introduced, not mastered) (Introduced, not mastered) (Introduced, not mastered)

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Month	Content	Skills	Vocabulary	Assessments	Standards
January	Problem Solving ~Chapter 5	• Choose the operation, multiplication or division to solve the problem. (pg. 231)		• Quiz 5-B *(Multiply & divide fractions and mixed numbers; solve fraction equations)*	6.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive decimals. (Application)
January	Adding and Subtracting Fractions ~ Chapter 5 (do after 4-8) Lessons 5-7 through 5-10.	• Find the least common multiple (LCM) of a group of numbers. (5-5) • Add and subtract fractions with unlike denominators. (5-7) • Add and subtract mixed numbers with unlike denominators. (5-8) • Rename mixed numbers to subtract. (5-9) • Solve equations by adding and subtracting fractions. (5-10)	-least common multiple - least common denominator	• Quiz 5-A *(LCM, add & subtract fractions; renaming, & add and subtract mixed numbers)* • Ch. 5 Test • AM Diagnostic Test • AM Practice	6.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive decimals. (Comprehension) 6.N.2.1. Students are able to add, subtract, multiply, and divide decimals. (Comprehension) (Introduced, not mastered) (Application)
March	Organizing Data ~ Chapter 6	• Use tables to record and organize data. (6-1) • Find the range, mean, median, and mode of a data set. (6-2)	-mean -median -mode -range	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups	6.S.1 (Application) 6.S.1.1. Students are able to find the mean, mode, and range of an ordered set of positive data.
March	Problem Solving ~ Chapter 6	• Make a plan to solve the problem by prioritizing and sequencing the information in the problem. (pg 283)		• Quiz 6-A (*Tables, mean, median, mode, & range)*	
March	Displaying and Interpreting Data ~ Chapter 6	• Display and analyze data in a bar graph. (6-4) • Record and organize data in frequency tables and histograms. (6-5) • Graph ordered pairs on a coordinate grid. (6-6)	-bar graph -double bar graph -frequency table -cumulative frequency -histogram -coordinate grid -ordered pair -line graph	• Quiz 6-B *(Frequency tables, bar graphs, line graphs, ordered pairs on a coordinate grid, stem & leaf plots)* • Ch. 6 Test	6.S.1 (Analyze) 6.S.1.2. Students are able to display data using bar and line graphs and draw conclusions from data displayed in a graph. (Synthesis) (Introduced)

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Month	Content	Skills	Vocabulary	Assessments	Standards
		• Display and analyze data in line graphs. (6-7) • Make and analyze stem-and-leaf plots. (6-9)	-double line graph -stem & leaf plot	• AM Test and/or Practice	6.A.3.1. Students are able to identify and graph ordered pairs in Quadrant I on a coordinate plane. (Knowledge) 6.S.1 (Analysis) 6.S.1.2. Students are able to display data using bar and line graphs and draw conclusions from data displayed in a graph. (Analysis) (Introduced)
February	Line and Angles ~ Chapter 7	• Describe figures by using the terms of geometry. (7-1) • Measure, classify, estimate, and draw angles. (7-2) • Describe relationships of angles as vertical, adjacent, complementary, and supplementary angles. (7-3) • Classify the different types of lines. (7-4)	-point -line -plane -line segment -ray -angle -vertex -acute angle -right angle -obtuse angle -straight angle -congruent -vertical angle -adjacent angle -complementary angle -supplementary angle -parallel lines -perpendicular lines -skew lines	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Quiz 7-A *(Points, lines, planes, angles, classifying lines, & angle relationships)*	6.G.2.1. Students are able to use basic shapes to demonstrate geometric concepts. (Application) 6.G.1.2. Students are able to identify and describe angles. (Application) (Introduced, mot mastered) 6.G.1 (Comprehension)
February	Polygons ~ Chapter 7	• Classify triangles and solve problems involving angle and side measures of triangles. (7-5) • Identify, classify, and compare quadrilaterals.	-acute triangle -obtuse triangle -right triangle -scalene triangle -isosceles triangle -equilateral triangle -quadrilateral -parallelogram -rectangle -rhombus	• Quiz 7-B *(Classifying triangles, quadrilaterals, & polygons)*	6.G.1.1. Students are able to identify and describe the characteristics of triangles and quadrilaterals. (Comprehension) (Comprehension) (Comprehension)

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Month	Content	Skills	Vocabulary	Assessments	Standards
		(7-6) • Identify regular and not regular polygons and find the angle measures of regular polygons. (7-7) • Recognize, describe, and extend geometric patterns. (7-8)	-square -trapezoid -polygon -regular polygon		6.G.2.1. Students are able to use basic shapes to demonstrate geometric concepts. (Application)
February/March	Polygon Relationships ~ Chapter 7	• Identify congruent figures and use congruence to solve problems. (7-9) • Use translations, reflections, and rotations to transform geometric shapes. (7-10) • Demonstrate line symmetry. (7-11)	-transformation -translation -rotation -reflection -line of reflection -line symmetry -line of symmetry	• Quiz 7-C *(Identify congruency, transformations, & line symmetry)* • Ch. 7 Test • AM Test and/or Practice	6.G.2.1. Students are able to use basic shapes to demonstrate geometric concepts. (Comprehension) (Application) (Application) (Comprehension)
March	Ratios and Proportions ~ Chapter 8	• Write ratios and rates and find unit rates. (8-1) • Write and solve proportions. (8-2) • Use proportions to make conversions within the customary measurement systems (8-3) • Use ratios to identify similar figures. (8-4) • Use proportions and similar figures to find unknown measures. (8-5) • Read and use map scales and scale drawings. (8-6)	-ratio -equivalent ratio -rate -unit rate -proportion -similar -corresponding sides -corresponding angles -indirect measurement -scale drawing -scale	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Quiz 8-*A (Ratios, rates, proportions)*	6.A.3.2. Students are able to solve one-step problems involving ratios and rates. (Application)

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Month	Content	Skills	Vocabulary	Assessments	Standards
March	Problem Solving ~ Chapter 8	• Make a plan to solve the problem by deciding if an estimate or an exact answer is needed. Pg 417			6.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive decimals. (Application)
March	Percents ~ Chapter 8	• Write percents as decimals and as fractions. (8-7) • Write decimals and fractions as percents. (8-8) • Find the missing value in a percent problem. (8-9) • Solve percent problems that involve discounts, tips, and sales tax. (8-9) • Find simple interest. Extension pg 436	-percent -discount -tip -sales tax -interest -principal -simple interest	• Quiz 8-B *(Percents, equivalencies with decimals & fractions; using percents for tax and discounts)* • Ch. 8 Test • AM Test and /or Practice	6.N.1.1. Students are able to represent fractions in equivalent forms and convert between fractions, decimals, and percents using halves, fourths, tenths, hundredths. (Application)
April	Perimeter, Area, and Volume ~ Chapter 10	• Find the perimeter and missing side length of a polygon. (10-1) • Find the area of rectangles, triangles, and parallelograms. (10-2) • Break a polygon into simpler parts to find its area. (10-3) • Explore how area and perimeter are affected by changes in the dimensions. (10-4)	-perimeter -area	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Quiz 10-A *(Finding perimeter and area of squares, rectangles, triangles, & parallelograms)*	6.M.1.2. Students are able to find the perimeter and area of squares and rectangles (whole number measurements). (Comprehension)
April	Circles ~ Chapter 10	• Identify parts of a circle and find the circumference and area of a circle. (10-5)	-circle -center -radius (radii) -diameter -circumference -pi	• Quiz 10-B *(Identify parts of a circle; finding circumference and area of a circle)* • Ch. 10 Test • AM Test and/or	

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Month	Content	Skills	Vocabulary	Assessments	Standards
				Practice	
April	Problem Solving ~ Chapter 10	• Choose an operation: add, subtract, multiply, or divide to solve a problem. Pg 521			6.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive decimals. (Application)
April	Probability ~ Chapter 11	• Estimate the likelihood of an event and write and compare the probabilities. (11-1) • Find the experimental probability of an event. (11-2) • Find the theoretical probability of an event. (11-3) • Make an organized list to find all possible outcomes. (11-4)	-probability -experiment -outcome -sample space -experimental probability -theoretical probability -equally likely -fair	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Ch. 11 Quiz *(Finding probabilities of a single event; make and organized list to find outcomes – counting principle)*	6.S.2.1. Students are able to find the probability of a simple event. (Knowledge) (Application)
April	Problem Solving ~ Chapter 11	• Estimate to check that your answer is a reasonable answer. Pg 569			6.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive decimals. (Application)
May	Understanding Integers ~ Chapter 9	• Identify and graph integers and find opposites on a number line. (9-1) • Compare and order integers. (9-2) • Locate and graph points on a coordinate plane. (9-3)	-positive number -negative number -opposites -integer -absolute value -coordinate plane -axes -x-axis -y-axis -quadrant -origin -coordinates	• Daily Assignments (*worksheets, book work, Am Exercises*, etc.) • In class questions & warm ups • Quiz 9-A *(Compare & order integers; graph points on a coordinate plane)*	6.N.2.1. Students are able to add, subtract, multiply, and divide decimals. (Application) (Introduced, not mastered) (Evaluation) 6.A.3.1. Students are able to identify and graph ordered pairs in Quadrant I on a coordinate

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Month	Content	Skills	Vocabulary	Assessments	Standards
			-x coordinate - y coordinate		plane. (Knowledge)
May	Problem Solving ~ Chapter 9	• Rewrite or restate the problem to help you understand what the problem is about. Pg 463			
May	Integer Operations ~ Chapter 9	• Add, subtract, multiply, and divide integers. (9-4 to 9-7) • Solve equations containing integers. (9-8)		• Ch 9 Test *(Add, subtract, multiply & divide integers)* • AM Test and/or Practice	