Curriculum Mapping
Subject: Math
Grade: Seven
Textbook: Holt *Middle School Math* *Course 2*

Month	Content	Skills	Assessments	Standards
September	Organizing Data	• Find the mean, median, mode, and range of a data set • Organize and interpret data in frequency tables and stem-and-leaf plot	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 1.1 *(mean, median, mode, range, bar graphs, histograms, and circle graphs)* • Quiz 1.2 *(box-and-whisker plot, line graphs, and scatter plots)* • Chapter 1 Test • AM Practices and Tests	7.S.1.1. Students are able to find the mean, median, mode, and range of a set of data. (Comprehension) 7.S.1.2. Students are able to display data, using frequency tables, line plots, stem-and-leaf plots, and make predictions from data displayed in a graph. (Application)
September	Displaying Data	• Display and analyze data in bar graphs and histogram • Read and interpret data presented in circle graphs • Display and analyze data in box-and-whisker plots		7.S.1.2. Students are able to display data, using frequency tables, line plots, stem-and-leaf plots, and make predictions from data displayed in a graph. (Application)
September	Trends and Relations in Graphs	• Display and analyze data in line graphs • Display and analyze data in scatter plots		7.S.1.2. Students are able to display data, using frequency tables, line plots, stem-and-leaf plots, and make predictions from data displayed in a graph. (Application) 7.A.3.1. Students are able to identify and graph ordered pairs on a coordinate plane and inequalities on a number line. (Application)

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September	Exponents	• Represent numbers by using exponents • Express large numbers in scientific notation • Use the order of operations to simplify numerical expressions	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 2.1 *(exponents, scientific notation, order of operations, divisibility rules, and prime factorization)* • Quiz 2.2 *(GCF, LCM, and expressions)* • Quiz 2.3 *(translate words into math, solve addition & subtraction equations, solve multiplication & division equations)* • Chapter 2 Test • AM Practices and Tests	7.N.1.1. Students are able to represent numbers in a variety of forms by describing, ordering, and comparing integers, decimals, percents, and fractions. (Comprehension) 7.A.1.1. Students are able to write and evaluate algebraic expressions using the set of whole numbers. (Application)
September/October	Factors and Multiples	• Find the prime factorizations of composite numbers • Find the greatest common factor of two or more whole numbers • Find the least common multiple of two or more whole numbers • Use the divisibility rules (2, 3, 4, 5, 6, 9, 10)		7.N.1.2. Students are able to find and use common multiples and factors of whole numbers. (Application)
October	Beginning Algebra	• Evaluate algebraic expressions • Translate words into numbers variables, and operations • Solve one-step equations by using addition or subtraction • Solve one-step equations by using multiplication or division		7.A.1.1. Students are able to write and evaluate algebraic expressions using the set of whole numbers. (Application) 7.A.2.1. Students are able to write and solve one-step 1st degree equations, with one variable, using the set of integers and inequalities, with one variable, using the set of whole numbers. (Application)

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October	Integers	• Compare and order integers and determine absolute value • Plot and identify ordered pairs on a coordinate plane • Choose which quadrant a ordered pair is in • Add Integers • Subtract Integers • Multiply and divide integers • Solve one-step equations with integers	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 3.1 *(integers; coordinate plane; add, subtract, multiply, & divide integers)* • Quiz 3.2 *(solve equations, equivalent fractions and mixed numbers, fractions to decimals, compare and order rational numbers)* • Chapter 3 Test • AM Practices and Tests	7.A.2.1. Students are able to write and solve one-step 1st degree equations, with one variable, using the set of integers and inequalities, with one variable, using the set of whole numbers. (Application) 7.A.3.1. Students are able to identify and graph ordered pairs on a coordinate plane and inequalities on a number line. (Application) 7.N.1.1. Students are able to represent numbers in a variety of forms by describing, ordering, and comparing integers, decimals, percents, and fractions. (Comprehension) 7.N.2.1. Students are able to add, subtract, multiply, and divide integers and positive fractions. (Application) 7.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive fractions and integers. (Application)

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Month	Content	Skills	Assessments	Standards
November	Rational Numbers	• Identify rational numbers and place them on a number line • Identify, write, and convert between equivalent fractions and mixed numbers • Write fractions as decimals and vice versa • Compare and order rational numbers	• *See previous page for assessments*	7.N.1.1. Students are able to represent numbers in a variety of forms by describing, ordering, and comparing integers, decimals, percents, and fractions. (Comprehension)
November	Decimal Operations	• Add and subtract decimals • Multiply decimals • Divide decimals • Divide decimals and integers by decimals • Solve one-step equations that contain decimals	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 4.1 *(add, subtract, multiply, & divide decimals; solve one-step equations containing decimals)* • Quiz 4.2 *(add, subtract, multiply & divide fractions; solve one-step equations containing fractions)* • Chapter 4 Test • AM Practices and Tests	7.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive fractions and integers. (Application)
November/December	Fraction Operations	• Multiply fractions and mixed numbers • Divide fractions and mixed numbers • Add and subtract fractions • Add and subtract mixed numbers • Solve one-step equations that contain fractions		7.N.2.1. Students are able to add, subtract, multiply, and divide integers and positive fractions. (Application) 7.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive fractions and integers. (Application)

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Month	Content	Skills	Assessments	Standards
December	Numerical Proportions	• Identify, write, and compare ratios and rates • Find equivalent ratios and identify proportions • Solve proportions by using cross products • Use dimensional analysis to make unit conversions	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 5.1 *(rates and ratios, write proportions, solve proportions, dimensional analysis)* • Quiz 5.2 *(similar figures)* • Chapter 5 Test • AM Practices and Tests	7.A.3.2. Students are able to model and solve multi-step problems involving rates. (Application) 7.G.2.1. Students are able to demonstrate ways that shapes can be transformed. (Application) 7.M.1.1. Students are able to select, use, and convert appropriate units of measurement for a situation including capacity and angle measurement. (Comprehension)
January	Geometric Proportions	• Use ratios to determine if two figures are similar • Use similar figures to find unknown lengths and unknown angles		7.G.2.1. Students are able to demonstrate ways that shapes can be transformed. (Application)
January	Introduction to Percents	• Write equivalent fractions, decimals, and percents • Find the percent of a number • Solve one-step equations containing percents	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 6.1 *(equivalent fractions, decimals, &percents; and percent of a number)* • Quiz 6.2 *(Solve one-step equations containing percents, percent of change, simple interest)* • Chapter 6 Test • AM Practices and Tests	7.N.1.1. Students are able to represent numbers in a variety of forms by describing, ordering, and comparing integers, decimals, percents, and fractions. (Comprehension) 7.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive fractions and integers. (Application)
January	Using percents	• Solve problems involving percent of change • Solve problems involving simple interest		

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Month	Content	Skills	Assessments	Standards
January	Lines and angles	• Identify and describe geometric figures (point, line, plane, etc.) • Identify angles and parts of angles • Identify parallel, perpendicular, and skew lines • Identify angles formed by a transversal	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 7.1 *(Points, lines, & planes; angles; parallel& perpendicular lines; circles; polygons)* • Quiz 7.2 *(Classify triangles, identify quadrilaterals, angle measure in polygons, transformations, symmetry)* • Chapter 7 Test • AM Practices & Tests	7.G.1.2. Students are able to identify and describe elements of geometric figures. (Knowledge)
January/February	Closed figures	• Identify and name different parts of a circle (radius, diameter, and chord) • Identify and name polygons • Classify triangles by their side lengths and angle measures • Name and identify types of quadrilaterals • Find the measures of angles in polygons		7.G.1.1. Students are able to identify, describe, and classify polygons having up to 10 sides. (Application) 7.G.1.2. Students are able to identify and describe elements of geometric figures. (Knowledge)
February	Closed figure relationships	• Recognize, describe, and show transformations (ex. Translations, rotations, and reflections) • Identify symmetry in figures		7.G.2.1. Students are able to demonstrate ways that shapes can be transformed. (Application)

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Month	Content	Skills	Assessments	Standards
February	Measurement, Perimeter, and Circumference	• Convert measurements within the customary and metric systems • Find the perimeter of a polygon and the circumference of a circle	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 8.1 *(convert measurements within customary and metric, perimeter, circumference, area of parallelograms)* • Quiz 8.2 *(area of triangles & trapezoids, area of circles, powers & roots)* • Chapter 8 Test • AM Practices and Tests	7.M.1.1. Students are able to select, use, and convert appropriate units of measurement for a situation including capacity and angle measurement. (Comprehension) 7.M.1.2. Students, when given the formulas, are able to find circumference, perimeter, and area of circles, parallelograms, triangles, and trapezoids (whole number measurements). (Comprehension)
February	Area	• Find the area of rectangles and other parallelograms • Find the area of triangles and trapezoids • Find the area of circles		7.M.1.2. Students, when given the formulas, are able to find circumference, perimeter, and area of circles, parallelograms, triangles, and trapezoids (whole number measurements). (Comprehension)
February	Powers and Roots	• Express and Evaluate numbers using powers and roots		

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March	Multi-step equations	• Solve two step equations • Solve multi-step equations • Solve equations that have variables on both sides	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 11.1 *(solve two-step equations, solve multi-step equations)* • Quiz 11.2 *(read, write, & graph inequalities; solve inequalities by adding, subtracting, multiplying, & dividing)* • Chapter 11 Test • AM Practices and Tests	7.N.3.1. Students are able to use various strategies to solve one- and two-step problems involving positive fractions and integers. (Application)
March	Inequalities	• Read and write inequalities and graph them on a number line • Solve one-step inequalities by adding or subtracting • Solve one-step inequalities by multiplying or dividing • Solve simple two-step inequalities		7.A.2.1. Students are able to write and solve one-step 1st degree equations, with one variable, using the set of integers and inequalities, with one variable, using the set of whole numbers. (Application) 7.A.3.1. Students are able to identify and graph ordered pairs on a coordinate plane and inequalities on a number line. (Application)
March	Review concepts	• Review all previous skills		
April	Pythagorean Theorem/Volume	• Use the Pythagorean Theorem to find the measure of a side of a right triangle • Find the volume of prisms and cylinders • Find the volume of pyramids, cones, & spheres	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 9.1 *(Pythagorean theorem, volume of prism, sphere, pyramid, cone,*	

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April	Surface Area	• Find the surface area of prisms, cylinders, and spheres	*&sphere)* • Quiz 9.2 *(surface area of prisms, cylinders, and spheres)* • Chapter 9 Test • AM Practices and Tests	
May	Probability	• Find the theoretical probability of an event • Find the probability of independent and dependent event	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • Quiz 11.1 *(theoretical probability, independent and dependent events, and computing odds)* • AM Practices and Tests	
May	Graphs and Functions	• Use function tables to generate and graph ordered pairs • Determine the slope of a line and to graph a line, given one point, the y-intercept, and the slope.	• Daily Assignments *(worksheets, AM exercises, book work, etc.)* • In class questions identifying the previous days material • AM Practices and Tests	