

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
Number Systems	This chapter addresses rational and irrational numbers, absolute value and scientific notation.	Scientific Notation	Express numbers between zero and one in scientific notation.	M8001	Instruction/Practice: Scientific Notation	Instruction/Supported Practice: Learn and practice expressing numbers between zero and one in scientific notation and converting between standard and scientific notation.
				M8002	Activity Quiz: Scientific Notation	Assessment: Demonstrate understanding of expressing numbers between zero and one in scientific notation and converting between standard and scientific notation.
				OWM8002	Independent Practice: Compass Writer: Scientific Notation	Independent Practice: Compass Writer: Practice giving a real-world example of an extremely large or small number and explain how to write the number in scientific notation.
		Rational and Irrational Numbers	Identify rational and irrational numbers and describe meanings.	M8003	Instruction/Practice: Rational and Irrational Numbers	Instruction/Supported Practice: Learn and practice identifying rational and irrational numbers and describing their definitions and examples of each.
				M8004	Activity Quiz: Rational and Irrational Numbers	Assessment: Demonstrate understanding of identifying rational and irrational numbers and describing their definitions and examples of each.
Absolute Value	Identify and explain absolute value.	M8005	Instruction/Practice 1: Absolute Value	Instruction/Supported Practice: Learn and practice identifying, explaining, and comparing absolute values and writing absolute value equations and inequalities for given situations.		

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				M8006	Independent Practice 1: Absolute Value	Independent Practice: Practice identifying, explaining, and comparing absolute values and writing absolute value equations and inequalities for given situations.
				M8007	Activity Quiz 1: Absolute Value	Assessment: Demonstrate understanding of identifying, explaining, and comparing absolute values and writing absolute value equations and inequalities for given situations.
				M8008	Instruction/Practice 2: Absolute Value	Instruction/Supported Practice: Learn and practice identifying, explaining, and comparing absolute values and writing absolute value equations and inequalities for given situations.
				M8009	Independent Practice 2: Absolute Value	Independent Practice: Practice identifying, explaining, and comparing absolute values and writing absolute value equations and inequalities for given situations.
				M8010	Activity Quiz 2: Absolute Value	Assessment: Demonstrate understanding of identifying, explaining, and comparing absolute values and writing absolute value equations and inequalities for given situations.

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Comparing Numbers with and Operations in Scientific Notation	This chapter addresses using scientific notation to compare large and small numbers, addition and subtraction with numbers in scientific notation, and using technology with scientific notation.	Comparing Large Numbers in Scientific Notation	Compare large numbers in scientific notation.	MA8021	Instruction: Comparing Large Numbers in Scientific Notation	Instruction: Instructional Video. Learn how to compare largenumbers written in scientific notation.
				MA8022	Supported Practice: Comparing Large Numbers in Scientific Notation	Supported Practice: Practice comparing large numbers in scientific notation.
				MA8023	Independent Practice: Comparing Large Numbers in Scientific Notation	Independent Practice: Practice comparing large numbers in scientific notation.
				QZMA8024	Quiz: Comparing Large Numbers in Scientific Notation	Assessment: Quiz. Demonstrate an ability to compare large numbers in scientific notation.
		Comparing Small Numbers in Scientific Notation	Compare small numbers in scientific notation.	MA8025	Instruction: Comparing Small Numbers in Scientific Notation	Instruction: Instructional Video. Learn to compare small numbers written in scientific notation.
				MA8026	Supported Practice: Comparing Small Numbers in Scientific Notation	Supported Practice: Practice comparing small numbers written in scientific notation.
				MA8027	Independent Practice: Comparing Small Numbers in Scientific Notation	Independent Practice: Practice comparing small numbers written in scientific notation.
				QZMA8028	Quiz: Comparing Small Numbers in Scientific Notation	Assessment: Quiz. Demonstrate an ability to compare small numbers written in scientific notation.

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		Adding and Subtracting Numbers in Scientific Notation	Add and subtract numbers in scientific notation.	MA8029	Instruction: Adding and Subtracting Numbers in Scientific Notation	Instruction: Interactive Exploration. Learn to add and subtract numbers in scientific notation.
				MA8030	Supported Practice: Adding and Subtracting Numbers in Scientific Notation	Supported Practice: Practice adding and subtracting numbers in scientific notation.
				MA8031	Independent Practice: Adding and Subtracting Numbers in Scientific Notation	Independent Practice: Practice adding and subtracting numbers in scientific notation.
				QZMA8032	Quiz: Adding and Subtracting Numbers in Scientific Notation	Assessment: Demonstrate an ability to add and subtract numbers in scientific notation.
		Using Scientific Notation with Technology	Use scientific notation with technology.	MA8037	Instruction: Using Scientific Notation with Technology	Instruction: Interactive Exploration. Learn to use and interpret numbers in scientific notation with technology.
				MA8038	Supported Practice: Using Scientific Notation with Technology	Supported Practice: Practice using and interpreting numbers in scientific notation with technology.
				MA8039	Independent Practice: Using Scientific Notation with Technology	Independent Practice: Practice using and interpreting numbers in scientific notation with technology.
				QZMA8040	Quiz: Using Scientific Notation with Technology	Assessment: Quiz. Demonstrate an ability to use and interpret numbers in scientific notation with technology.
Real Numbers	This chapter addresses repeating decimals, principal square roots, estimation and simplification of expressions.	Repeating Decimals to Fractions	Convert repeating decimals to fractions.	M8011	Instruction/Practice 1: Repeating Decimals to Fractions	Instruction/Supported Practice: Learn and practice converting repeating decimals to fractions, converting fractions to repeating decimals, and writing repeating decimals in correct notation.

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				M8012	Independent Practice 1: Repeating Decimals to Fractions	Independent Practice: Practice converting repeating decimals to fractions, converting fractions to repeating decimals, and writing repeating decimals in correct notation.
				M8013	Activity Quiz 1: Repeating Decimals to Fractions	Assessment: Demonstrate understanding of converting repeating decimals to fractions, converting fractions to repeating decimals, and writing repeating decimals in correct notation.
				M8014	Instruction/Practice 2: Repeating Decimals to Fractions	Instruction/Supported Practice: Learn and practice converting repeating decimals to fractions, converting fractions to repeating decimals, and writing repeating decimals in correct notation.
				M8015	Independent Practice 2: Repeating Decimals to Fractions	Independent Practice: Practice converting repeating decimals to fractions, converting fractions to repeating decimals, and writing repeating decimals in correct notation.
				M8016	Activity Quiz 2: Repeating Decimals to Fractions	Assessment: Demonstrate understanding of converting repeating decimals to fractions, converting fractions to repeating decimals, and writing repeating decimals in correct notation.

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		Roots	Calculate and approximate principal square roots.	M8017	Instruction/Practice 1: Roots	Instruction/Supported Practice: Learn and practice finding square roots of positive and negative whole numbers, decimals, and fractions, identifying perfect squares, and estimating square roots.
				M8018	Independent Practice 1: Roots	Independent Practice: Practice finding square roots of positive and negative whole numbers, decimals, and fractions, identifying perfect squares, and estimating square roots.
				M8019	Activity Quiz 1: Roots	Assessment: Demonstrate understanding of finding square roots of positive and negative whole numbers, decimals, and fractions, identifying perfect squares, and estimating square roots.
				M8020	Instruction/Practice 2: Roots	Instruction/Supported Practice: Learn and practice finding square roots of positive and negative whole numbers, decimals, and fractions, identifying perfect squares, and estimating square roots.
				M8021	Independent Practice 2: Roots	Independent Practice: Practice finding square roots of positive and negative whole numbers, decimals, and fractions, identifying perfect squares, and estimating square roots.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8022	Activity Quiz 2: Roots	Assessment: Demonstrate understanding of finding square roots of positive and negative whole numbers, decimals, and fractions, identifying perfect squares, and estimating square roots.
				OWM8022	Independent Practice: Compass Writer: Roots	Independent Practice: Compass Writer: Practice explaining how to determine what two consecutive whole numbers the square root of a non-perfect square lies between.
		Using Roots to Solve Equations	Use roots to solve equations.	MA8017	Instruction: Using Square Roots and Cube Roots	Instruction: Interactive Exploration. Learn to use square roots and cube roots to solve equations.
				MA8018	Supported Practice: Using Square Roots and Cube Roots	Supported Practice: Practice using square roots and cube roots to solve equations.
				MA8019	Independent Practice: Using Square Roots and Cube Roots	Independent Practice: Practice using square roots and cube roots to solve equations.
				QZMA8020	Quiz: Using Square Roots and Cube Roots	Assessment: Quiz. Demonstrate an ability to use square roots and cube roots to solve equations.
		Compare and Order	Compare and order numbers in many forms including: fractions, decimals, scientific notation, absolute value, and radicals.	M8023	Instruction/Practice 1: Compare and Order	Instruction/Supported Practice: Learn and practice comparing and ordering numbers in forms including fractions, decimals, scientific notation, absolute value, and radicals using both symbols and a number line.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8024	Independent Practice 1: Compare and Order	Independent Practice: Practice comparing and ordering numbers in forms including fractions, decimals, scientific notation, absolute value, and radicals using both symbols and a number line.
				M8025	Activity Quiz 1: Compare and Order	Assessment: Demonstrate understanding of comparing and ordering numbers in forms including fractions, decimals, scientific notation, absolute value, and radicals using both symbols and a number line.
				M8026	Instruction/Practice 2: Compare and Order	Instruction/Supported Practice: Learn and practice comparing and ordering numbers in forms including fractions, decimals, scientific notation, absolute value, and radicals using both symbols and a number line.
				M8027	Independent Practice 2: Compare and Order	Independent Practice: Practice comparing and ordering numbers in forms including fractions, decimals, scientific notation, absolute value, and radicals using both symbols and a number line.
				M8028	Activity Quiz 2: Compare and Order	Assessment: Demonstrate understanding of comparing and ordering numbers in forms including fractions, decimals, scientific notation, absolute value, and radicals using both symbols and a number line.

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		Estimation	Use estimation for situations using real numbers.	M8029	Instruction/Practice: Estimation	Instruction/Supported Practice: Learn and practice estimating for situations using real numbers such as area of a rectangle, area of a circle, and area of a triangle by using techniques such as rounding, underestimating, overestimating and front end estimation.
				M8030	Activity Quiz: Estimation	Assessment: Demonstrate understanding of estimating for situations using real numbers such as area of a rectangle, area of a circle, and area of a triangle by using techniques such as rounding, underestimating, overestimating and front end estimation.
		Properties	Apply properties to solve problems with real numbers.	M8031	Instruction/Practice: Properties	Instruction/Supported Practice: Learn and practice applying properties to solve problems with real numbers.
				M8032	Activity Quiz: Properties	Assessment: Demonstrate understanding of applying properties to solve problems with real numbers.
		Real Number Operations	Simplify numerical expressions with real numbers.	M8033	Instruction/Practice 1: Real Number Operations	Instruction/Supported Practice: Learn and practice simplifying numerical expressions with real numbers using order of operations.
				M8034	Independent Practice 1: Real Number Operations	Independent Practice: Practice simplifying numerical expressions with real numbers using order of operations.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8035	Activity Quiz 1: Real Number Operations	Assessment: Demonstrate understanding of simplifying numerical expressions with real numbers using order of operations.
				M8036	Instruction/Practice 2: Real Number Operations	Instruction/Supported Practice: Learn and practice simplifying numerical expressions with real numbers using order of operations.
				M8037	Independent Practice 2: Real Number Operations	Independent Practice: Practice simplifying numerical expressions with real numbers using order of operations.
				M8038	Activity Quiz 2: Real Number Operations	Assessment: Demonstrate understanding of simplifying numerical expressions with real numbers using order of operations.
Number Theory	This chapter addresses representing numbers in binary and octal, divisibility rules and the concept of relatively prime.	Divisibility Rules	Use divisibility rules to solve problems.	M8039	Instruction/Practice: Divisibility Rules	Instruction/Supported Practice: Learn and practice using divisibility rules to solve problems.
				M8040	Activity Quiz: Divisibility Rules	Assessment: Demonstrate understanding of using divisibility rules to solve problems.
		Multiple Representations	Represent numbers in base ten in other bases (two, five, and eight) and vice versa.	M8041	Instruction/Practice: Multiple Representations	Instruction/Supported Practice: Learn and practice representing numbers in various bases such as base ten, two, five and eight.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8042	Activity Quiz: Multiple Representations	Assessment: Demonstrate understanding of representing numbers in various bases such as base ten, two, five and eight.
		Prime and Composite	Identify numbers as relatively prime.	M8043	Instruction/Practice 1: Prime and Composite	Instruction/Supported Practice: Learn and practice identifying prime and composite numbers and understanding numbers as relatively prime.
				M8044	Independent Practice 1: Prime and Composite	Independent Practice: Practice identifying prime and composite numbers and understanding numbers as relatively prime.
				M8045	Activity Quiz 1: Prime and Composite	Assessment: Demonstrate understanding of identifying prime and composite numbers and understanding numbers as relatively prime.
				M8046	Instruction/Practice 2: Prime and Composite	Instruction/Supported Practice: Learn and practice identifying prime and composite numbers and understanding numbers as relatively prime.
				M8047	Independent Practice 2: Prime and Composite	Independent Practice: Practice identifying prime and composite numbers and understanding numbers as relatively prime.
				M8048	Activity Quiz 2: Prime and Composite	Assessment: Demonstrate understanding of identifying prime and composite numbers and understanding numbers as relatively prime.

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Ratio, Proportion and Percent	This chapter addresses rate of change and proportional relationships.	Rate of Change	Describe and use rate of change to solve problems.	M8049	Instruction/Practice 1: Rate of Change	Instruction/Supported Practice: Learn and practice describing and using rate of change to solve problems such as percent increase problems, percent decrease problems, and distance, rate, and time problems.
				M8050	Independent Practice 1: Rate of Change	Independent Practice: Practice describing and using rate of change to solve problems such as percent increase problems, percent decrease problems, and distance, rate, and time problems.
				M8051	Activity Quiz 1: Rate of Change	Assessment: Demonstrate understanding of describing and using rate of change to solve problems such as percent increase problems, percent decrease problems, and distance, rate, and time problems.
				M8052	Instruction/Practice 2: Rate of Change	Instruction/Supported Practice: Learn and practice describing and using rate of change to solve problems such as percent increase problems, percent decrease problems, and distance, rate, and time problems.
				M8053	Independent Practice 2: Rate of Change	Independent Practice: Practice describing and using rate of change to solve problems such as percent increase problems, percent decrease problems, and distance, rate, and time problems.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8054	Activity Quiz 2: Rate of Change	Assessment: Demonstrate understanding of describing and using rate of change to solve problems such as percent increase problems, percent decrease problems, and distance, rate, and time problems.
		Proportions	Use proportional relationships to find measures of length, weight or mass, and capacity or volume.	M8055	Instruction/Practice: Proportions	Instruction/Supported Practice: Learn and practice using indirect measurement and proportional relationships to find measures of length, weight or mass, and capacity or volume in word problems and real world problems.
				M8056	Activity Quiz: Proportions	Assessment: Demonstrate understanding of using indirect measurement and proportional relationships to find measures of length, weight or mass, and capacity or volume in word problems and real world problems.
		Percents	Solve real world problems involving percents greater than 100.	M8057	Instruction/Practice 1: Percents	Instruction/Supported Practice: Learn and practice solving real world problems that require finding percent of a number, percent increase or percent decrease and involve percents greater than 100.
				M8058	Independent Practice 1: Percents	Independent Practice: Practice solving real world problems that require finding percent of a number, percent increase or percent decrease and involve percents greater than 100.

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				M8059	Activity Quiz 1: Percents	Assessment: Demonstrate understanding of solving real world problems that require finding percent of a number, percent increase or percent decrease and involve percents greater than 100.
				M8060	Instruction/Practice 2: Percents	Instruction/Supported Practice: Learn and practice solving real world problems that require finding percent of a number, percent increase or percent decrease and involve percents greater than 100.
				M8061	Independent Practice 2: Percents	Independent Practice: Practice solving real world problems that require finding percent of a number, percent increase or percent decrease and involve percents greater than 100.
				M8062	Activity Quiz 2: Percents	Assessment: Demonstrate understanding of solving real world problems that require finding percent of a number, percent increase or percent decrease and involve percents greater than 100.
		Comparing Two Proportional Relationships	Compare two proportional relationships.	MA8045	Instruction: Comparing Two Proportional Relationships	Instruction: Interactive Exploration. Learn to compare two proportional relationships.
				MA8046	Supported Practice: Comparing Two proportional Relationships	Supported Practice: Practice comparing two proportional relationships.
				MA8047	Independent Practice: Comparing Two Proportional Relationships	Independent Practice: Practice comparing two proportional relationships.

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				QZMA8048	Quiz: Comparing Two Proportional Relationships	Assessment: Quiz. Demonstrate an ability to compare two proportional relationships.
Real World Computation	This chapter addresses real world problems (one-, two- and multi-step problems).	Operations	Solve real world problems with rational numbers (including integers, decimals and fractions).	M8063	Instruction/Practice 1: Operations	Instruction/Supported Practice: Learn and practice writing one-step equations to solve real world problems with rational numbers including integers, decimals, and fractions.
				M8064	Independent Practice 1: Operations	Independent Practice: Practice writing one-step equations to solve real world problems with rational numbers including integers, decimals, and fractions.
				M8065	Activity Quiz 1: Operations	Assessment: Demonstrate understanding of writing one-step equations to solve real world problems with rational numbers including integers, decimals, and fractions.
				M8066	Instruction/Practice 2: Operations	Instruction/Supported Practice: Learn and practice writing one-step equations to solve real world problems with rational numbers including integers, decimals, and fractions.
				M8067	Independent Practice 2: Operations	Independent Practice: Practice writing one-step equations to solve real world problems with rational numbers including integers, decimals, and fractions.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8068	Activity Quiz 2: Operations	Assessment: Demonstrate understanding of writing one-step equations to solve real world problems with rational numbers including integers, decimals, and fractions.
		Real World Problems	Solve real world problems with ratios, rates, proportions, and percents.	M8069	Instruction/Practice 1: Real World Problems	Instruction/Supported Practice: Learn and practice solving real world problems with ratios, rates, proportions, and percents.
				M8070	Independent Practice 1: Real World Problems	Independent Practice: Practice solving real world problems with ratios, rates, proportions, and percents.
				M8071	Activity Quiz 1: Real World Problems	Assessment: Demonstrate understanding of solving real world problems with ratios, rates, proportions, and percents.
				M8072	Instruction/Practice 2: Real World Problems	Instruction/Supported Practice: Learn and practice solving real world problems with ratios, rates, proportions, and percents.
				M8073	Independent Practice 2: Real World Problems	Independent Practice: Practice solving real world problems with ratios, rates, proportions, and percents.
				M8074	Activity Quiz 2: Real World Problems	Assessment: Demonstrate understanding of solving real world problems with ratios, rates, proportions, and percents.
		Multi-Step Problems	Solve real world two- or three- step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.	M8075	Instruction/Practice 1: Multi-Step Problems	Instruction/Supported Practice: Learn and practice solving real world two and three step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.

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				M8076	Independent Practice 1: Multi-Step Problems	Independent Practice: Practice solving real world two and three step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.
				M8077	Activity Quiz 1: Multi-Step Problems	Assessment: Demonstrate understanding of solving real world two and three step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.
				M8078	Instruction/Practice 2: Multi-Step Problems	Instruction/Supported Practice: Learn and practice solving real world two and three step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.
				M8079	Independent Practice 2: Multi-Step Problems	Independent Practice: Practice solving real world two and three step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.
				M8080	Activity Quiz 2: Multi-Step Problems	Assessment: Demonstrate understanding of solving real world two and three step problems with integers, decimals, fractions, ratios, rates, proportions, and percents.
Expressions and Equations	This chapter addresses substitution, translation, and evaluation as well as solving linear inequalities.	Expressions	Substitute rational numbers into expressions and evaluate.	M8081	Instruction/Practice 1: Expressions	Instruction/Supported Practice: Learn and practice evaluating algebraic expressions by substituting rational numbers for a given variable.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8082	Independent Practice 1: Expressions	Independent Practice: Practice evaluating algebraic expressions by substituting rational numbers for a given variable.
				M8083	Activity Quiz 1: Expressions	Assessment: Demonstrate understanding of evaluating algebraic expressions by substituting rational numbers for a given variable.
				M8084	Instruction/Practice 2: Expressions	Instruction/Supported Practice: Learn and practice evaluating algebraic expressions by substituting rational numbers for a given variable.
				M8085	Independent Practice 2: Expressions	Independent Practice: Practice evaluating algebraic expressions by substituting rational numbers for a given variable.
				M8086	Activity Quiz 2: Expressions	Assessment: Demonstrate understanding of evaluating algebraic expressions by substituting rational numbers for a given variable.
		Expressions with Exponents	Substitute rational numbers into expressions with exponents and radicals.	M8087	Instruction/Practice 1: Expressions with Exponents	Instruction/Supported Practice: Learn and practice evaluating algebraic expressions containing exponents and radicals by substituting a rational number for a given variable.
				M8088	Independent Practice 1: Expressions with Exponents	Independent Practice: Practice evaluating algebraic expressions containing exponents and radicals by substituting a rational number for a given variable.

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				M8089	Activity Quiz 1: Expressions with Exponents	Assessment: Demonstrate understanding of evaluating algebraic expressions containing exponents and radicals by substituting a rational number for a given variable.
				M8090	Instruction/Practice 2: Expressions with Exponents	Instruction/Supported Practice: Learn and practice evaluating algebraic expressions containing exponents and radicals by substituting a rational number for a given variable.
				M8091	Independent Practice 2: Expressions with Exponents	Independent Practice: Practice evaluating algebraic expressions containing exponents and radicals by substituting a rational number for a given variable.
				M8092	Activity Quiz 2: Expressions with Exponents	Assessment: Demonstrate understanding of evaluating algebraic expressions containing exponents and radicals by substituting a rational number for a given variable.
		Expressions and Equations	Translate word expressions and equations into algebraic expressions and equations (including one or more variables and exponents).	M8093	Instruction/Practice 1: Expressions and Equations	Instruction/Supported Practice: Learn and practice translating word expressions and equations into algebraic expressions and equations including one or more variables and exponents.

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				M8094	Independent Practice 1: Expressions and Equations	Independent Practice: Practice translating word expressions and equations into algebraic expressions and equations including one or more variables and exponents.
				M8095	Activity Quiz 1: Expressions and Equations	Assessment: Demonstrate understanding of translating word expressions and equations into algebraic expressions and equations including one or more variables and exponents.
				M8096	Instruction/Practice 2: Expressions and Equations	Instruction/Supported Practice: Learn and practice translating word expressions and equations into algebraic expressions and equations including one or more variables and exponents.
				M8097	Independent Practice 2: Expressions and Equations	Independent Practice: Practice translating word expressions and equations into algebraic expressions and equations including one or more variables and exponents.
				M8098	Activity Quiz 2: Expressions and Equations	Assessment: Demonstrate understanding of translating word expressions and equations into algebraic expressions and equations including one or more variables and exponents.

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		Expressions, Equations, and Inequalities	Translate verbal expressions and sentences into algebraic inequalities and vice versa.	M8099	Instruction/Practice: Expressions, Equations, and Inequalities	Instruction/Supported Practice: Learn and practice translating verbal expressions and sentences into algebraic expressions, equations, and inequalities and algebraic expressions, equations, and inequalities into verbal expressions and sentences.
				M8100	Activity Quiz: Expressions, Equations, and Inequalities	Assessment: Demonstrate understanding of translating verbal expressions and sentences into algebraic expressions, equations, and inequalities and algebraic expressions, equations, and inequalities into verbal expressions and sentences.
		Real World Expressions	Use variables to represent unknown quantities in real world situations.	M8101	Instruction/Practice: Real World Expressions	Instruction/Supported Practice: Learn and practice using variables to represent unknown quantities in real world situations when translating written sentences into algebraic expressions and algebraic expressions into written sentences.
				M8102	Activity Quiz: Real World Expressions	Assessment: Demonstrate understanding of using variables to represent unknown quantities in real world situations when translating written sentences into algebraic expressions and algebraic expressions into written sentences.

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		Simplify	Combine and simplify algebraic expressions with a maximum of two variables.	M8103	Instruction/Practice 1: Simplify	Instruction/Supported Practice: Learn and practice simplifying algebraic expressions by combining like terms.
				M8104	Independent Practice 1: Simplify	Independent Practice: Practice simplifying algebraic expressions by combining like terms.
				M8105	Activity Quiz 1: Simplify	Assessment: Demonstrate understanding of simplifying algebraic expressions by combining like terms.
				M8106	Instruction/Practice 2: Simplify	Instruction/Supported Practice: Learn and practice simplifying algebraic expressions by combining like terms.
				M8107	Independent Practice 2: Simplify	Independent Practice: Practice simplifying algebraic expressions by combining like terms.
				M8108	Activity Quiz 2: Simplify	Assessment: Demonstrate understanding of simplifying algebraic expressions by combining like terms.
		Substitution	Evaluate algebraic expressions and equations by substituting integral values for variables and simplifying.	M8109	Instruction/Practice: Substitution	Instruction/Supported Practice: Learn and practice evaluating algebraic expressions, equations, and inequalities by substituting numerical values for variables, simplifying, and determining whether the given variable satisfies the expression, equation, or inequality.

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				M8110	Activity Quiz: Substitution	Assessment: Demonstrate understanding of evaluating algebraic expressions, equations, and inequalities by substituting numerical values for variables, simplifying, and determining whether the given variable satisfies the expression, equation, or inequality.
		Inequalities	Solve linear inequalities in one variable algebraically.	M8111	Instruction/Practice 1: Inequalities	Instruction/Supported Practice: Learn and practice solving one-step and two-step inequalities with one variable.
				M8112	Independent Practice 1: Inequalities	Independent Practice: Practice solving one-step and two-step inequalities with one variable.
				M8113	Activity Quiz 1: Inequalities	Assessment: Demonstrate understanding of solving one-step and two-step inequalities with one variable.
				M8114	Instruction/Practice 2: Inequalities	Instruction/Supported Practice: Learn and practice solving one-step and two-step inequalities with one variable.
				M8115	Independent Practice 2: Inequalities	Independent Practice: Practice solving one-step and two-step inequalities with one variable.
				M8116	Activity Quiz 2: Inequalities	Assessment: Demonstrate understanding of solving one-step and two-step inequalities with one variable.

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Identifying Solutions and Solving Equations	This chapter addresses identifying the number of solutions, solving equations with variables on both sides, using the Distributive property and combining like terms to solve equations.	Identifying the Number of Solutions in a Linear Equation	Identify the number of solutions in a linear equation.	MA8061	Instruction: Identifying the Number of Solutions in a Linear Equation	Instruction: Interactive Exploration. Learn to identify and provide examples of linear equations in one variable that have one solution, infinitely many solutions, or no solution.
				MA8062	Supported Practice: Identifying the Number of Solutions in a Linear Equation	Supported Practice: Practice identifying and providing examples of linear equations in one variable that have one solution, infinitely many solutions, or no solution.
				MA8063	Independent Practice: Identifying the Number of Solutions in a Linear Equation	Independent Practice: Practice identifying and providing examples of linear equations in one variable that have one solution, infinitely many solutions, or no solution.
				QZMA8064	Quiz: Identifying the Number of Solutions in a Linear Equation	Assessment: Quiz. Demonstrate an ability to identify and provide examples of linear equations in one variable that have one solution, infinitely many solutions, or no solution.
		Solving Equations with Variables on Both Sides	Solve equations with variables on both sides.	MA8065	Instruction: Solving Equations with Variables on Both Sides	Instruction: Interactive Exploration. Learn to solve equations with variables on both sides.
				MA8066	Supported Practice: Solving Equations with Variables on Both Sides	Supported Practice: Practice solving equations with variables on both sides.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				MA8067	Independent Practice: Solving Equations with Variables on Both Sides	Independent Practice: Practice solving equations with variables on both sides.
				QZMA8068	Quiz: Solving Equations with Variables on Both Sides	Assessment: Quiz. Demonstrate an ability to solve equations with variables on both sides.
		Solving Equations Requiring the Distributive Property	Solve equations requiring the distributive property.	MA8069	Instruction: Solving Equations Requiring the Distributive Property	Instruction: Interactive Exploration. Learn to solve equations requiring the Distributive Property.
				MA8215	Problem Solving: Solving Equations Requiring the Distributive Property	Instruction: Learn to solve real-world equations requiring the Distributive Property.
				MA8070	Supported Practice: Solving Equations Requiring the Distributive Property	Supported Practice: Practice solving equations requiring the Distributive Property.
				MA8071	Independent Practice: Solving Equations Requiring the Distributive Property	Independent Practice: Practice solving equations requiring the Distributive Property.
				QZMA8072	Quiz: Solving Equations Requiring the Distributive Property	Assessment: Quiz. Demonstrate an ability to solve equations requiring the Distributive Property.
		Solving Equations Requiring Combining Like Terms	Solve equations requiring combining like terms.	MA8073	Instruction: Solving Equations Requiring Combining Like Terms	Instruction: Interactive Exploration. Learn to solve equations requiring combining like terms.
				MA8074	Supported Practice: Solving Equations Requiring Combining Like Terms	Supported Practice: Practice solving equations requiring combining like terms.
				MA8075	Independent Practice: Solving Equations Requiring Combining Like Terms	Independent Practice: Practice solving equations requiring combining like terms.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				QZMA8076	Quiz: Solving Equations Requiring Combining Like Terms	Assessment: Quiz. Demonstrate an ability to solve equations requiring combining like terms.
Systems of Equations	This chapter addresses analyzing and solving systems of linear equations.	Analyzing Systems of Equations	Analyze systems of equations.	MA8081	Instruction: Analyzing Systems of Equations	Instruction: Interactive Exploration. Learn to determine the nature of the solutions of a system of linear equations using inspection.
				MA8082	Supported Practice: Analyzing Systems of Equations	Supported Practice: Practice determining the nature of the solutions of a system of linear equations using inspection.
				MA8083	Independent Practice: Analyzing Systems of Equations	Independent Practice: Practice determining the nature of the solutions of a system of linear equations using inspection.
				QZMA8084	Quiz: Analyzing Systems of Equations	Assessment: Quiz. Demonstrate an ability to determine the nature of the solutions of a system of linear equations using inspection.
		Identifying the Number of Solutions in a Linear Equation	Identify the number of solutions in a linear equation.	MA8085	Problem Solving: Solving Real-World Problems Involving Systems of Two Linear Equations	Instruction: Learn to solve real-world problems involving systems of two linear equations.
				MA8086	Supported Practice: Solving Real-World Problems Involving Systems of Two Linear Equations	Supported Practice: Practice solving real-world problems involving systems of two linear equations.
				PDMA8087	Practice: Practice Resource: Solving Real-World Problems Involving Systems of Two Linear Equations	Independent Practice: Practice Resource. Practice solving real-world problems involving systems of two linear equations.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				QZMA8088	Quiz: Solving Real-World Problems Involving Systems of Two Linear Equations	Assessment: Quiz. Demonstrate an ability to solve real-world problems involving systems of two linear equations.
Plane Geometry	This chapter addresses the Pythagorean Theorem, transformations, congruence, parallel and perpendicular.	Geometric Properties	Use properties of parallelism, perpendicularity, and symmetry to solve real world problems.	M8117	Instruction/Practice: Geometric Properties	Instruction/Supported Practice: Learn and practice using properties of parallelism, perpendicularity, and symmetry to solve real world problems.
				M8118	Activity Quiz: Geometric Properties	Assessment: Demonstrate understanding of using properties of parallelism, perpendicularity, and symmetry to solve real world problems.
		Polygons	Compare and describe properties of convex and concave polygons.	M8119	Instruction/Practice: Polygons	Instruction/Supported Practice: Learn and practice comparing and describing properties of convex and concave polygons.
				M8120	Activity Quiz: Polygons	Assessment: Demonstrate understanding of comparing and describing properties of convex and concave polygons.
		Pythagorean Theorem	Apply the Pythagorean theorem to solve real world problems.	M8121	Instruction/Practice 1: Pythagorean Theorem	Instruction/Supported Practice: Learn and practice applying the Pythagorean theorem to solve real world problems.
				M8122	Independent Practice 1: Pythagorean Theorem	Independent Practice: Practice applying the Pythagorean theorem to solve real world problems.
				M8123	Activity Quiz 1: Pythagorean Theorem	Assessment: Demonstrate understanding of applying the Pythagorean theorem to solve real world problems.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8124	Instruction/Practice 2: Pythagorean Theorem	Instruction/Supported Practice: Learn and practice applying the Pythagorean theorem to solve real world problems.
				M8125	Independent Practice 2: Pythagorean Theorem	Independent Practice: Practice applying the Pythagorean theorem to solve real world problems.
				M8126	Activity Quiz 2: Pythagorean Theorem	Assessment: Demonstrate understanding of applying the Pythagorean theorem to solve real world problems.
				OWM8126	Independent Practice: Compass Writer: Pythagorean Theorem	Independent Practice: Compass Writer: Practice explaining how to use the Pythagorean Theorem to find the distance between two points on the coordinate plane.
		Congruent and Similar	Identify congruence and similarity in real world situations and justify.	M8127	Instruction/Practice 1: Congruent and Similar	Instruction/Supported Practice: Learn and practice identifying congruence and similarity in real world situations and using proportions to solve for missing measurements.
				M8128	Independent Practice 1: Congruent and Similar	Independent Practice: Practice identifying congruence and similarity in real world situations and using proportions to solve for missing measurements.
				M8129	Activity Quiz 1: Congruent and Similar	Assessment: Demonstrate understanding of identifying congruence and similarity in real world situations and using proportions to solve for missing measurements.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8130	Instruction/Practice 2: Congruent and Similar	Instruction/Supported Practice: Learn and practice identifying congruence and similarity in real world situations and using proportions to solve for missing measurements.
				M8131	Independent Practice 2: Congruent and Similar	Independent Practice: Practice identifying congruence and similarity in real world situations and using proportions to solve for missing measurements.
				M8132	Activity Quiz 2: Congruent and Similar	Assessment: Demonstrate understanding of identifying congruence and similarity in real world situations and using proportions to solve for missing measurements.
		Transformations	Identify and perform transformations (reflection, translation, rotation, and dilation) of a figure on a coordinate plane.	M8133	Instruction/Supported Practice 1: Transformations	Instruction/Supported Practice: Learn and practice identifying and performing transformations, including reflections, translations, rotations, and dilations, of a figure on a coordinate plane.
				M8134	Independent Practice 1: Transformations	Independent Practice: Practice identifying and performing transformations, including reflections, translations, rotations, and dilations, of a figure on a coordinate plane.
				M8135	Activity Quiz 1: Transformations	Assessment: Demonstrate understanding of identifying and performing transformations, including reflections, translations, rotations, and dilations, of a figure on a coordinate plane.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8136	Instruction/Practice 2: Transformations	Instruction/Supported Practice: Learn and practice identifying and performing transformations, including reflections, translations, rotations, and dilations, of a figure on a coordinate plane.
				M8137	Independent Practice 2: Transformations	Independent Practice: Practice identifying and performing transformations, including reflections, translations, rotations, and dilations, of a figure on a coordinate plane.
				M8138	Activity Quiz 2: Transformations	Assessment: Demonstrate understanding of identifying and performing transformations, including reflections, translations, rotations, and dilations, of a figure on a coordinate plane.
				OWM8138	Independent Practice: Compass Writer: Transformations	Independent Practice: Compass Writer: Practice describing a sequence of transformations to map a figure onto its image.
		Proportional Relationships	Identify how changes in dimensions affect area and perimeter.	M8139	Instruction/Practice 1: Proportional Relationships	Instruction/Supported Practice: Learn and practice identifying how changes in dimensions affect area and perimeter through use of proportions.
				M8140	Independent Practice 1: Proportional Relationships	Independent Practice: Practice identifying how changes in dimensions affect area and perimeter through use of proportions.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8141	Activity Quiz 1: Proportional Relationships	Assessment: Demonstrate understanding of identifying how changes in dimensions affect area and perimeter through use of proportions.
				M8142	Instruction/Practice 2: Proportional Relationships	Instruction/Supported Practice: Learn and practice identifying how changes in dimensions affect area and perimeter through use of proportions.
				M8143	Independent Practice 2: Proportional Relationships	Independent Practice: Practice identifying how changes in dimensions affect area and perimeter through use of proportions.
				M8144	Activity Quiz 2: Proportional Relationships	Assessment: Demonstrate understanding of identifying how changes in dimensions affect area and perimeter through use of proportions.
		Explore Reflection/Translation	Use the Transformation tool to investigate reflections and translations.	M8501	Supported Practice: Explore Reflection and Translation	Supported Practice: Practice using the Transformation tool to investigate reflections and translations.
		Explore Rotations	Use the Transformation tool to investigate rotations.	M8502	Supported Practice: Explore Rotations	Supported Practice: Practice using the Transformation tool to investigate rotations.
		Explore Dilation	Use the Transformation tool to investigate dilation.	M8503	Supported Practice: Explore Dilation	Supported Practice: Practice using the Transformation tool to investigate dilations.
		Explore Transformations	Use the Transformation tool to investigate multiple transformations.	M8504	Supported Practice: Explore Transformations	Supported Practice: Practice using the Transformation tool to investigate multiple transformations.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
Advanced Transformations	This chapter addresses transformations of lines, angles, and figures, including congruence, similarity, and sequences of transformations.	Transforming Lines and Line Segments	Transform lines and line segments.	MA8121	Instruction: Transforming Lines and Line Segments	Instruction: Interactive Exploration. Learn to translate, reflect, and rotate lines and line segments.
				MA8122	Supported Practice: Transforming Lines and Line Segments	Supported Practice: Practice translating, reflecting, and rotating lines and line segments.
				MA8123	Independent Practice: Transforming Lines and Line Segments	Independent Practice: Practice translating, reflecting, and rotating lines and line segments.
				QZMA8124	Quiz: Transforming Lines and Line Segments	Assessment: Quiz. Demonstrate an ability to translate, reflect, and rotate lines and line segments.
		Transforming Angles	Transform angles.	MA8125	Instruction: Transforming Angles	Instruction: Interactive Exploration. Learn to translate, reflect, and rotate angles.
				MA8126	Supported Practice: Transforming Angles	Supported Practice: Practice translating, reflecting, and rotating angles.
				MA8127	Independent Practice: Transforming Angles	Independent Practice: Practice translating, reflecting, and rotating angles.
				QZMA8128	Quiz: Transforming Angles	Assessment: Quiz. Demonstrate an ability to translate, reflect, and rotate angles.
		Transforming Parallel Lines	Transform parallel lines.	MA8129	Instruction: Transforming Parallel Lines	Instruction: Interactive Exploration. Learn to translate, reflect, and rotate parallel lines.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				MA8130	Supported Practice: Transforming Parallel Lines	Supported Practice: Practice translating, reflecting, and rotating parallel lines.
				MA8131	Independent Practice: Transforming Parallel Lines	Independent Practice: Practice translating, reflecting, and rotating parallel lines.
				QZMA8132	Quiz: Transforming Parallel Lines	Assessment: Quiz. Demonstrate an ability to translate, reflect, and rotate parallel lines.
		Understanding Congruence	Understand congruence.	MA8133	Instruction: Understanding Congruence	Instruction: Interactive Exploration. Learn to determine congruence by identifying a rigid transformation that produces one figure from another.
				MA8134	Supported Practice: Understanding Congruence	Supported Practice: Practice determining congruence by identifying a rigid transformation that produces one figure from another.
				MA8135	Independent Practice: Understanding Congruence	Independent Practice: Practice determining congruence of two figures by identifying a rigid transformation that produces one figure from another.
				QZMA8136	Quiz: Understanding Congruence	Assessment: Demonstrate an ability to determine congruence by identifying a rigid transformation that produces one figure from another.
		Using a Sequence of Transformations	Use a sequence of transformations.	MA8137	Instruction: Using a Sequence of Transformations	Instruction: Interactive Exploration. Learn to identify a sequence of rigid transformations between two congruent figures.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				MA8138	Supported Practice: Using a Sequence of Transformations	Supported Practice: Practice identifying a sequence of rigid transformations between two figures.
				QZMA8139	Quiz: Using a Sequence of Transformations	Assessment: Quiz. Demonstrate an ability to identify a sequence of rigid transformations between two figures.
		Understanding Similar Figures	Understand similar figures.	MA8140	Instruction: Understanding Similar Figures	Instruction: Interactive Exploration. Learn to identify similar figures by identifying rigid transformations and dilations.
				MA8141	Supported Practice: Understanding Similar Figures	Supported Practice: Practice identifying similar figures by identifying rigid transformations and dilations.
				MA8142	Independent Practice: Understanding Similar Figures	Independent Practice: Practice identifying similar figures by identifying rigid transformations and dilations.
				QZMA8143	Quiz: Understanding Similar Figures	Assessment: Quiz. Demonstrate an ability to identify similar figures by identifying rigid transformations and dilations.
		Describing Sequences of Transformations that Show Similarity	Describe sequences of transformations that show similarity.	MA8144	Instruction: Describing Sequences of Transformations that Show Similarity	Instruction: Interactive Exploration. Learn to describe sequences of transformations that show similarity.
				MA8145	Supported Practice: Describing Sequences of Transformations that Show Similarity	Supported Practice: Practice describing sequences of transformations that show similarity.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				PDMA8146	Practice: Practice Resource: Describing Sequences of Transformations that Show Similarity	Independent Practice: Practice Resource. Practice describing sequences of transformations that show similarity.
				QZMA8147	Quiz: Describing Sequences of Transformations that Show Similarity	Assessment: Quiz. Demonstrate an ability to describe sequences of transformations that show similarity.
Triangles	This chapter addresses triangle theorems, angle relationships formed by transversals, and angle-angle similarity.	Proving Triangle Theorems Informally	Prove triangle theorems informally.	MA8152	Instruction: Proving Triangle Theorems Informally	Instruction: Interactive Exploration. Learn to use congruence to prove theorems about triangles.
				MA8153	Supported Practice: Proving Triangle Theorems Informally	Supported Practice: Practice using congruence to prove theorems about triangles.
				PDMA8154	Independent Practice: Practice Resource: Proving Triangle Theorems Informally	Independent Practice: Practice Resource. Practice using congruence to prove theorems about triangles.
				QZMA8155	Quiz: Proving Triangle Theorems Informally	Assessment: Quiz. Demonstrate an ability to use congruence to prove theorems about triangles.
		Understanding Angles Formed When Parallel Lines are Cut by a Transversal	Understand angles formed when parallel lines are cut by a transversal.	MA8156	Instruction: Understanding Angles Formed When Parallel Lines are Cut by a Transversal	Instruction: Interactive Exploration. Learn to understand angles formed when parallel lines are cut by a transversal.
				MA8157	Supported Practice: Understanding Angles Formed When Parallel Lines are Cut by a Transversal	Supported Practice: Practice understanding angles formed when parallel lines are cut by a transversal.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				QZMA8158	Quiz: Understanding Angles Formed When Parallel Lines are Cut by a Transversal	Assessment: Quiz. Demonstrate an ability to understand angles formed when parallel lines are cut by a transversal.
		Exploring Angle-Angle Similarity	Explore angle-angle similarity.	MA8159	Instruction: Exploring Angle-Angle Similarity	Instruction: Interactive Exploration. Learn to understand angle-angle similarity.
				MA8160	Supported Practice: Exploring Angle-Angle Similarity	Supported Practice: Practice understanding angle-angle similarity.
				MA8161	Independent Practice: Exploring Angle-Angle Similarity	Independent Practice: Practice String Game. Practice understanding angle-angle similarity.
				QZMA8162	Quiz: Exploring Angle-Angle Similarity	Assessment: Quiz. Demonstrate an ability to understand angle-angle similarity.
Advanced Pythagorean Theorem	This chapter addresses the converse of the Pythagorean Theorem and applying the Pythagorean Theorem in 3 Dimensions and the Coordinate Plane	Using the Converse of the Pythagorean Theorem	Use the converse of the Pythagorean theorem.	MA8163	Instruction: Using the Converse of the Pythagorean Theorem	Instruction: Instructional Video. Learn to prove and use the converse of the Pythagorean Theorem to determine whether a triangle is a right triangle.
				MA8164	Supported Practice: Using the Converse of the Pythagorean Theorem	Supported Practice: Practice proving and using the converse of the Pythagorean Theorem to determine whether a triangle is a right triangle.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				PDMA8165	Independent Practice: Practice Resource: Using the Converse of the Pythagorean Theorem	Independent Practice: Practice Resource. Practice proving the converse of the Pythagorean Theorem.
				QZMA8166	Quiz: Using the Converse of the Pythagorean Theorem	Assessment: Quiz. Demonstrate an ability to use the converse of the Pythagorean Theorem to determine whether a triangle is a right triangle.
		Applying the Pythagorean Theorem in Three Dimensions	Apply the Pythagorean theorem in three dimensions.	MA8171	Problem Solving: Applying the Pythagorean Theorem in Three Dimensions	Instruction: Learn to use the Pythagorean Theorem in three dimensions.
				MA8172	Supported Practice: Applying the Pythagorean Theorem in Three Dimensions	Supported Practice: Practice using the Pythagorean Theorem in three dimensions.
				PDMA8173	Independent Practice: Practice Resource: Applying the Pythagorean Theorem in Three Dimensions	Independent Practice: Practice Resource. Practice using the Pythagorean Theorem in three dimensions.
				QZMA8174	Quiz: Applying the Pythagorean Theorem in Three Dimensions	Assessment: Quiz. Demonstrate an ability to use the Pythagorean Theorem in three dimensions.
		Applying the Pythagorean Theorem in the Coordinate Plane	Apply the Pythagorean theorem in the coordinate plane.	MA8175	Instruction: Applying the Pythagorean Theorem in the Coordinate Plane	Instruction: Instructional Video. Learn how to apply the Pythagorean Theorem in the coordinate plane.
				MA8176	Supported Practice: Applying the Pythagorean Theorem in the Coordinate Plane	Supported Practice: Practice applying the Pythagorean Theorem in the coordinate plane.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				QZMA8177	Quiz: Applying the Pythagorean Theorem in the Coordinate Plane	Assessment: Quiz. Demonstrate an ability to apply the Pythagorean Theorem in the coordinate plane.
Three-Dimensional Geometry	This chapter addresses the volumes and surface areas of three-dimensional shapes.	Volume	Find the volume of pyramids, prisms, and cones.	M8145	Instruction/Practice 1: Volume	Instruction/Supported Practice: Learn and practice finding the volume of pyramids, prisms, and cones and finding the missing measure when given the volume.
				M8146	Independent Practice 1: Volume	Independent Practice: Practice finding the volume of pyramids, prisms, and cones and finding the missing measure when given the volume.
				M8147	Activity Quiz 1: Volume	Assessment: Demonstrate understanding of finding the volume of pyramids, prisms, and cones and finding the missing measure when given the volume.
				M8148	Instruction/Practice 2: Volume	Instruction/Supported Practice: Learn and practice finding the volume of pyramids, prisms, and cones and finding the missing measure when given the volume.
				M8149	Independent Practice 2: Volume	Independent Practice: Practice finding the volume of pyramids, prisms, and cones and finding the missing measure when given the volume.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8150	Activity Quiz 2: Volume	Assessment: Demonstrate understanding of finding the volume of pyramids, prisms, and cones and finding the missing measure when given the volume.
		Applying Volume Formulas	Apply volume formulas.	MA8182	Instruction: Applying Volume Formulas	Instruction: Learn to apply volume formulas to solve real-world problems.
				MA8216	Problem-Solving: Applying Volume Formulas	Instruction: Learn to apply volume formulas to solve real-world problems.
				MA8183	Supported Practice: Applying Volume Formulas	Supported Practice. Practice applying volume formulas to solve real-world problems.
				PDMA8184	Independent Practice: Practice Resource: Applying Volume Formulas	Independent Practice: Practice Resource. Practice applying volume formulas to solve real-world problems.
				QZMA8185	Quiz: Applying Volume Formulas	Assessment: Quiz. Demonstrate an ability to apply volume formulas to solve real-world problems.
		Surface Area	Find the surface area of pyramids, prisms, and cones.	M8151	Instruction/Practice: Surface Area	Instruction/Supported Practice: Learn and practice finding the surface area of pyramids, prisms, and cones.
				M8152	Activity Quiz: Surface Area	Assessment: Demonstrate understanding of finding the surface area of pyramids, prisms, and cones.
		Regular and Irregular Polygons	Compare regular and irregular polygons.	M8153	Instruction/Practice 1: Regular and Irregular Polygons	Instruction/Supported Practice: Learn and practice identifying and comparing regular and irregular polygons up to the dodecagon and measuring each interior angle of a regular polygon as well as finding the sum of its interior angles.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8154	Independent Practice 1: Regular and Irregular Polygons	Independent Practice: Practice identifying and comparing regular and irregular polygons up to the dodecagon and measuring each interior angle of a regular polygon as well as finding the sum of its interior angles.
				M8155	Activity Quiz 1: Regular and Irregular Polygons	Assessment: Demonstrate understanding of identifying and comparing regular and irregular polygons up to the dodecagon and measuring each interior angle of a regular polygon as well as finding the sum of its interior angles.
				M8156	Instruction/Practice 2: Regular and Irregular Polygons	Instruction/Supported Practice: Learn and practice identifying and comparing regular and irregular polygons up to the dodecagon and measuring each interior angle of a regular polygon as well as finding the sum of its interior angles.
				M8157	Independent Practice 2: Regular and Irregular Polygons	Independent Practice: Practice identifying and comparing regular and irregular polygons up to the dodecagon and measuring each interior angle of a regular polygon as well as finding the sum of its interior angles.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8158	Activity Quiz 2: Regular and Irregular Polygons	Assessment: Demonstrate understanding of identifying and comparing regular and irregular polygons up to the dodecagon and measuring each interior angle of a regular polygon as well as finding the sum of its interior angles.
		Angle Measure	Find the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.	M8159	Instruction/Practice 1: Angle Measure	Instruction/Supported Practice: Learn and practice finding the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.
				M8160	Independent Practice 1: Angle Measure	Independent Practice: Practice finding the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.
				M8161	Activity Quiz 1: Angle Measure	Assessment: Demonstrate understanding of finding the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.
				M8162	Instruction/Practice 2: Angle Measure	Instruction/Supported Practice: Learn and practice finding the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8163	Independent Practice 2: Angle Measure	Independent Practice: Practice finding the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.
				M8164	Activity Quiz 2: Angle Measure	Assessment: Demonstrate understanding of finding the angle measure in two-dimensional figures and two-dimensional sides of three-dimensional figures based on geometric relationships.
		Proportional Relationships	Identify the relationship between volume or surface area and dimension.	M8165	Instruction/Practice 1: Proportional Relationships	Instruction/Supported Practice: Learn and practice identifying how change in dimension affects volume or surface area through use of proportions.
				M8166	Independent Practice 1: Proportional Relationships	Independent Practice: Practice identifying how change in dimension affects volume or surface area through use of proportions.
				M8167	Activity Quiz 1: Proportional Relationships	Assessment: Demonstrate understanding of identifying how change in dimension affects volume or surface area through use of proportions.
				M8168	Instruction/Practice 2: Proportional Relationships	Instruction/Supported Practice: Learn and practice identifying how change in dimension affects volume or surface area through use of proportions.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8169	Independent Practice 2: Proportional Relationships	Independent Practice: Practice identifying how change in dimension affects volume or surface area through use of proportions.
				M8170	Activity Quiz 2: Proportional Relationships	Assessment: Demonstrate understanding of identifying how change in dimension affects volume or surface area through use of proportions.
Measurement	This chapter addresses scale, estimation and significant digits.	Scale	Interpret and apply various scales including number lines, graphs, models, and maps.	M8171	Instruction/Practice: Scale	Instruction/Supported Practice: Learn and practice interpreting and applying various scales including number lines, graphs, models, and maps.
				M8172	Activity Quiz: Scale	Assessment: Demonstrate understanding of interpreting and applying various scales including number lines, graphs, models, and maps.
		Estimation	Select tools to measure quantities and dimensions to a specified degree of accuracy and determine the greatest possible error of measurement.	M8179	Instruction/Practice: Estimation	Instruction/Supported Practice: Learn and practice selecting the correct tools to accurately measure quantities and dimensions to a specified degree of accuracy and determine the greatest possible error of measurement.
				M8180	Activity Quiz: Estimation	Assessment: Demonstrate understanding of selecting the correct tools to accurately measure quantities and dimensions to a specified degree of accuracy and determine the greatest possible error of measurement.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Significant Digits	Identify the number of significant digits as related to the least precise unit of measure and apply to real world contexts.	M8181	Instruction/Practice 1: Significant Digits	Instruction/Supported Practice: Learn and practice identifying the number of significant digits as related to the least precise unit of measure and apply to real world contexts.
				M8182	Independent Practice 1: Significant Digits	Independent Practice: Practice identifying the number of significant digits as related to the least precise unit of measure and apply to real world contexts.
				M8183	Activity Quiz 1: Significant Digits	Assessment: Demonstrate understanding of identifying the number of significant digits as related to the least precise unit of measure and apply to real world contexts.
				M8184	Instruction/Practice 2: Significant Digits	Instruction/Supported Practice: Learn and practice identifying the number of significant digits as related to the least precise unit of measure and apply to real world contexts.
				M8185	Independent Practice 2: Significant Digits	Independent Practice: Practice identifying the number of significant digits as related to the least precise unit of measure and apply to real world contexts.
				M8186	Activity Quiz 2: Significant Digits	Assessment: Demonstrate understanding of identifying the number of significant digits as related to the least precise unit of measure and apply to real world contexts.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
Graphing	This chapter addresses graphing linear equalities and inequalities.	Tables and Ordered Pairs	Use a table to find ordered pair solutions of a linear equation in slope-intercept form.	M8187	Instruction/Practice: Tables and Ordered Pairs	Instruction/Supported Practice: Learn and practice using a table to find ordered pair solutions of a linear equation in slope-intercept form and graphing the line from a table of ordered pairs.
				M8188	Activity Quiz: Tables and Ordered Pairs	Assessment: Demonstrate understanding of using a table to find ordered pair solutions of a linear equation in slope-intercept form and graphing the line from a table of ordered pairs.
		Equations to Lines	Graph linear equations in standard form.	M8189	Instruction/Practice 1: Equations to Lines	Instruction/Supported Practice: Learn and practice converting equations from standard form to slope-intercept form and graphing linear equations in standard form.
				M8190	Independent Practice 1: Equations to Lines	Independent Practice: Practice converting equations from standard form to slope-intercept form and graphing linear equations in standard form.
				M8191	Activity Quiz 1: Equations to Lines	Assessment: Demonstrate understanding of converting equations from standard form to slope-intercept form and graphing linear equations in standard form.
				M8192	Instruction/Practice 2: Equations to Lines	Instruction/Supported Practice: Learn and practice converting equations from standard form to slope-intercept form and graphing linear equations in standard form.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8193	Independent Practice 2: Equations to Lines	Independent Practice: Practice converting equations from standard form to slope-intercept form and graphing linear equations in standard form.
				M8194	Activity Quiz 2: Equations to Lines	Assessment: Demonstrate understanding of converting equations from standard form to slope-intercept form and graphing linear equations in standard form.
		Linear Inequalities	Identify and graph inequalities on a number line.	M8195	Instruction/Practice 1: Linear Inequalities	Instruction/Supported Practice: Learn and practice identifying and graphing inequalities on a number line.
				M8196	Independent Practice 1: Linear Inequalities	Independent Practice: Practice identifying and graphing inequalities on a number line.
				M8197	Activity Quiz 1: Linear Inequalities	Assessment: Demonstrate understanding of identifying and graphing inequalities on a number line.
				M8198	Instruction/Practice 2: Linear Inequalities	Instruction/Supported Practice: Learn and practice identifying and graphing inequalities on a number line.
				M8199	Independent Practice 2: Linear Inequalities	Independent Practice: Practice identifying and graphing inequalities on a number line.
				M8200	Activity Quiz 2: Linear Inequalities	Assessment: Demonstrate understanding of identifying and graphing inequalities on a number line.
		Inequalities	Identify and graph inequalities in the coordinate plane.	M8201	Instruction/Practice: Inequalities	Instruction/Supported Practice: Learn and practice identifying and graphing inequalities in the coordinate plane.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8202	Activity Quiz: Inequalities	Assessment: Demonstrate understanding of identifying and graphing inequalities in the coordinate plane.
		Applications of Linear Inequalities	Solve problems in two variables using linear inequalities.	M8203	Instruction/Practice: Applications of Linear Inequalities	Instruction/Supported Practice: Learn and practice solving problems using linear inequalities.
				M8204	Activity Quiz: Applications of Linear Inequalities	Assessment: Demonstrate understanding of solving problems using linear inequalities.
		Explore Inequalities I	Use the Number Line tool to investigate linear inequalities in one variable.	M8500	Supported Practice: Explore Inequalities I	Supported Practice: Practice using the Number Line tool to investigate linear inequalities with one variable.
		Explore Inequalities II	Use the Coordinate Graphing tool to investigate linear inequalities in two variables.	M8507	Supported Practice: Explore Inequalities II	Supported Practice: Practice using the Coordinate Graphing tool to investigate linear inequalities with two variables.
		Explore Linear Programming	Use the Coordinate Graphing tool to investigate linear programming.	M8510	Supported Practice: Explore Linear Programming	Supported Practice: Practice using the Coordinate Graphing tool to investigate linear programming.
Linear Relationships	This chapter addresses x- and y-intercepts, slope and determining if a function is linear.	x- and y- Intercepts	Given the graph of a linear relationship, determine the x- and y-intercepts.	M8205	Instruction/Practice: x- and y- Intercepts	Instruction/Supported Practice: Learn and practice determining the x- and y-intercepts when given the graph of a linear equation.
				M8206	Activity Quiz: x- and y- Intercepts	Assessment: Demonstrate understanding of determining the x- and y-intercepts when given the graph of a linear equation.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Slope of a Line	Given the graph of a line, determine the slope.	M8207	Instruction/Practice 1: Slope of a Line	Instruction/Supported Practice: Learn and practice identifying lines with positive slope, negative slope, zero slope, and no slope, calculating slope when given two points, and determining slope when given the graph of a line.
				M8208	Independent Practice 1: Slope of a Line	Independent Practice: Practice identifying lines with positive slope, negative slope, zero slope, and no slope, calculating slope when given two points, and determining slope when given the graph of a line.
				M8209	Activity Quiz 1: Slope of a Line	Assessment: Demonstrate understanding of identifying lines with positive slope, negative slope, zero slope, and no slope, calculating slope when given two points, and determining slope when given the graph of a line.
				M8210	Instruction/Practice 2: Slope of a Line	Instruction/Supported Practice: Learn and practice identifying lines with positive slope, negative slope, zero slope, and no slope, calculating slope when given two points, and determining slope when given the graph of a line.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8211	Independent Practice 2: Slope of a Line	Independent Practice: Practice identifying lines with positive slope, negative slope, zero slope, and no slope, calculating slope when given two points, and determining slope when given the graph of a line.
				M8212	Activity Quiz 2: Slope of a Line	Assessment: Demonstrate understanding of identifying lines with positive slope, negative slope, zero slope, and no slope, calculating slope when given two points, and determining slope when given the graph of a line.
		Write Equations in Slope-Intercept Form	Given the slope and y-intercept, write an equation.	M8213	Instruction/Practice: Write Equations in Slope-Intercept Form	Instruction/Supported Practice: Learn and practice writing equations in slope-intercept form when given the slope and the y-intercept.
				M8214	Activity Quiz: Write Equations in Slope-Intercept Form	Assessment: Demonstrate understanding of writing equations in slope-intercept form when given the slope and the y-intercept.
		Find a Function Rule	Find a function rule to describe a linear relationship using tables of related input-output variables.	M8215	Instruction/Practice 1: Find a Function Rule	Instruction/Supported Practice: Learn and practice finding a function rule to describe a linear equation when given a table of values and writing a linear equation when given two points.
				M8216	Independent Practice 1: Find a Function Rule	Independent Practice: Practice finding a function rule to describe a linear equation when given a table of values and writing a linear equation when given two points.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8217	Activity Quiz 1: Find a Function Rule	Assessment: Demonstrate understanding of finding a function rule to describe a linear equation when given a table of values and writing a linear equation when given two points.
				M8218	Instruction/Practice 2: Find a Function Rule	Instruction/Supported Practice: Learn and practice finding a function rule to describe a linear equation when given a table of values and writing a linear equation when given two points.
				M8219	Independent Practice 2: Find a Function Rule	Independent Practice: Practice finding a function rule to describe a linear equation when given a table of values and writing a linear equation when given two points.
				M8220	Activity Quiz 2: Find a Function Rule	Assessment: Demonstrate understanding of finding a function rule to describe a linear equation when given a table of values and writing a linear equation when given two points.
		Determine if a Function is Linear	Using information from a table, graph, or rule, determine if a function is linear and justify.	M8221	Instruction/Practice 1: Determine if a Function is Linear	Instruction/Supported Practice: Learn and practice using information from a table, graph, or rule to determine whether a function is linear and explain why or why not the function is linear.
				M8222	Independent Practice 1: Determine if a Function is Linear	Independent Practice: Practice using information from a table, graph, or rule to determine whether a function is linear and explain why or why not the function is linear.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8223	Activity Quiz 1: Determine if a Function is Linear	Assessment: Demonstrate understanding of using information from a table, graph, or rule to determine whether a function is linear and explain why or why not the function is linear.
				M8224	Instruction/Practice 2: Determine if a Function is Linear	Instruction/Supported Practice: Learn and practice using information from a table, graph, or rule to determine whether a function is linear and explain why or why not the function is linear.
				M8225	Independent Practice 2: Determine if a Function is Linear	Independent Practice: Practice using information from a table, graph, or rule to determine whether a function is linear and explain why or why not the function is linear.
				M8226	Activity Quiz 2: Determine if a Function is Linear	Assessment: Demonstrate understanding of using information from a table, graph, or rule to determine whether a function is linear and explain why or why not the function is linear.
				ATM8226	Practice Resource: Determine if a Function is Linear	Practice Resource: Practice determining whether an equation of a function is linear using an online graphing calculator.
		Explore Linear Relationships	Use the Coordinate Graphing tool to investigate problems about linear relationships.	M8272	Supported Practice: Explore Linear Relationships	Supported Practice: Practice using the Coordinate Graphing tool to investigate problems about linear relationships.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Explore Slope-Intercept Form	Use the Coordinate Graphing tool to investigate the slope-intercept form of a line.	M8506	Supported Practice: Explore Slope-Intercept Form	Supported Practice: Practice using the Coordinate Graphing tool to investigate the slope-intercept form of a line.
		Explore Reflections of Lines	Use the Coordinate Graphing tool to investigate reflections of lines.	M8508	Supported Practice: Explore Reflections of Lines	Supported Practice: Practice using the Coordinate Graphing tool to investigate reflections of lines.
		Explore Linear/Nonlinear	Use the Coordinate Graphing tool to investigate linear and nonlinear relationships.	M8509	Supported Practice: Explore Linear/Nonlinear	Supported Practice: Practice using the Coordinate Graphing tool to investigate linear and nonlinear relationships.
Understanding, Using, and Interpreting Slope	This chapter addresses graphing proportional relationships and using a variety of strategies to understand and interpret slope, including graphs, similar triangles, and different forms of the slope equation.	Graphing Proportional Relationships and Interpreting Slope	Graph proportional relationships and interpreting slope.	MA8041	Instruction: Graphing Proportional Relationships and Interpreting Slope	Instruction: Interactive Exploration. Learn to graph proportional relationships and interpret their slopes.
				MA8042	Supported Practice: Graphing Proportional Relationships and Interpreting Slope	Supported Practice: Practice graphing proportional relationships and interpreting their slopes.
				PDMA8043	Independent Practice: Practice Resource: Graphing Proportional Relationships and Interpreting Slope	Independent Practice: Practice Resource. Practice graphing proportional relationships and interpreting their slopes.
				QZMA8044	Quiz: Graphing Proportional Relationships and Interpreting Slope	Assessment: Quiz. Demonstrate an ability to graph proportional relationships and interpret their slopes.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Using Similar Triangles to Understand Slope	Use similar triangles to understand slope.	MA8053	Instruction: Using Similar Triangles to Understand Slope	Instruction: Interactive Exploration. Learn how to find slope and that the slope is the same between any two distinct points on a line.
				MA8054	Supported Practice: Using Similar Triangles to Understand Slope	Supported Practice: Practice finding slope and using the fact that the slope is the same between any two distinct points on a line.
				OWMA8055	Independent Practice: Compass Writer: Using Similar Triangles to Understand Slope	Independent Practice: Compass Writer. Practice finding slope and using the fact that the slope is the same between any two distinct points on a line.
				QZMA8056	Quiz: Using Similar Triangles to Understand Slope	Assessment: Quiz. Demonstrate an ability to find slope and an understanding that the slope is the same between any two distinct points on a line.
		Using Slope-Intercept Form	Use slope-intercept form.	MA8057	Instruction: Using Slope-Intercept Form	Instruction: Interactive Exploration. Learn how to use slope-intercept form to write equations of lines and to graph lines.
				MA8058	Supported Practice: Using Slope-Intercept Form	Supported Practice: Practice using slope-intercept form to write equations of lines and to graph lines.
				PDMA8059	Independent Practice: Practice Resource: Using Slope-Intercept Form	Independent Practice: Practice Resource. Practice using slope-intercept form to write equations of lines and to graph lines.
				QZMA8060	Quiz: Using Slope-Intercept Form	Assessment: Quiz. Demonstrate an ability to use slope-intercept form to write equations of lines and to graph lines.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Interpreting $y = mx + b$ as a Linear Function	Interpret $y = mx + b$ as a linear function.	MA8105	Instruction: Interpreting Slope and y-Intercept	Instruction: Learn to interpret slope and y-intercept.
				MA8106	Supported Practice: Interpreting Slope and y-Intercept	Supported Practice: Practice interpreting slope and y-intercept.
				MA8107	Independent Practice: Interpreting Slope and y-Intercept	Independent Practice: Practice interpreting slope and y-intercept.
				QZMA8108	Quiz: Interpreting Slope and y-Intercept	Assessment: Quiz. Demonstrate an ability to interpret slope and y-intercept.
Functions	This chapter addresses recognizing, comparing, interpreting, constructing, and describing functions.	Recognizing Functions	Recognize functions.	MA8089	Instruction: Recognizing Functions	Instruction: Interactive Exploration. Learn to recognize functions from graphs and equations.
				MA8090	Supported Practice: Recognizing Functions	Supported Practice: Practice recognizing functions from graphs and equations.
				MA8091	Independent Practice: Recognizing Functions	Independent Practice: Practice recognizing functions from graphs and equations.
				QZMA8092	Quiz: Recognizing Functions	Assessment: Quiz. Demonstrate an ability to recognize functions from graphs and equations.
		Comparing Functions Represented in Different Forms	Compare functions represented in different forms.	MA8093	Instruction: Comparing Functions Represented in Different Forms	Instruction: Interactive Exploration. Learn to compare properties of functions represented in different forms.
				MA8094	Supported Practice: Comparing Functions Represented in Different Forms	Supported Practice: Practice comparing properties of functions represented in different forms.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				PDMA8095	Independent Practice: Practice Resource: Comparing Functions Represented in Different Forms	Independent Practice: Practice Resource. Practice comparing properties of functions represented in different forms.
				QZMA8096	Quiz: Comparing Functions Represented in Different Forms	Assessment: Quiz. Demonstrate an ability to compare properties of functions represented in different forms.
		Interpreting $y = mx + b$ as a Linear Function	Interpret $y = mx + b$ as a linear function.	MA8101	Instruction: Interpreting $y = mx + b$ as a Linear Function	Instruction: Interactive Exploration. Learn to identify linear functions from equations, tables, and graphs.
				MA8102	Supported Practice: Interpreting $y = mx + b$ as a Linear Function	Supported Practice: Practice identifying linear functions from equations, tables, and graphs.
				PDMA8103	Independent Practice: Practice Resource: Interpreting $y = mx + b$ as a Linear Function	Independent Practice: Practice Resource. Practice identifying linear functions from equations, tables, and graphs.
				QZMA8104	Quiz: Interpreting $y = mx + b$ as a Linear Function	Assessment: Quiz. Demonstrate an ability to identify linear functions from equations, tables, and graphs.
		Constructing Linear Functions	Construct linear functions.	MA8109	Instruction: Constructing Linear Functions	Instruction: Learn to construct linear functions.
				MA8110	Supported Practice: Constructing Linear Functions	Supported Practice: Practice constructing linear functions.
				MA8111	Independent Practice: Constructing Linear Functions	Independent Practice: Practice constructing linear functions.
				QZMA8112	Quiz: Constructing Linear Functions	Assessment: Quiz. Demonstrate an ability to construct linear functions.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Describing a Functional Relationship by Analyzing a Graph	Describe a functional relationship by analyzing a graph.	MA8113	Instruction: Describing a Functional Relationship by Analyzing a Graph	Instruction: Learn to describe the relationship between two quantities by analyzing a graph.
				MA8114	Supported Practice: Describing a Functional Relationship by Analyzing a Graph	Supported Practice: Practice describing the relationship between two quantities by analyzing a graph.
				PDMA8115	Independent Practice: Practice Resource: Describing a Functional Relationship by Analyzing a Graph	Independent Practice: Practice Resource. Practice describing the relationship between two quantities by analyzing a graph.
				QZMA8116	Quiz: Describing a Functional Relationship by Analyzing a Graph	Assessment: Quiz. Demonstrate an ability to describe the relationship between two quantities by analyzing a graph.
		Sketching Graphs of Functions	Sketch graphs of functions.	MA8117	Instruction: Sketching Graphs of Functions	Instruction: Learn to sketch the graph of a function given a description of how two quantities relate.
				MA8118	Supported Practice: Sketching Graphs of Functions	Supported Practice: Practice sketching the graph of a function given a description of how two quantities relate.
				PDMA8119	Independent Practice: Practice Resource: Sketching Graphs of Functions	Independent Practice: Practice Resource. Practice sketching the graph of a function given a description of how two quantities relate.
				QZMA8120	Quiz: Sketching Graphs of Functions	Assessment: Quiz. Demonstrate an ability to sketch the graph of a function given a description of how two quantities relate.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
Probability	This chapter addresses conditional probability and sampling.	Conditional Probability	Calculate conditional probabilities and the probabilities of dependent events.	M8227	Instruction/Practice 1: Conditional Probability	Instruction/Supported Practice: Learn and practice calculating conditional probabilities and the probabilities of dependent events.
				M8228	Independent Practice 1: Conditional Probability	Independent Practice: Practice calculating conditional probabilities and the probabilities of dependent events.
				M8229	Activity Quiz 1: Conditional Probability	Assessment: Demonstrate understanding of calculating conditional probabilities and the probabilities of dependent events.
				M8230	Instruction/Practice 2: Conditional Probability	Instruction/Supported Practice: Learn and practice calculating conditional probabilities and the probabilities of dependent events.
				M8231	Independent Practice 2: Conditional Probability	Independent Practice: Practice calculating conditional probabilities and the probabilities of dependent events.
				M8232	Activity Quiz 2: Conditional Probability	Assessment: Demonstrate understanding of calculating conditional probabilities and the probabilities of dependent events.
		Sampling Techniques	Define and differentiate between different types of sampling techniques.	M8233	Instruction/Practice: Sampling Techniques	Instruction/Supported Practice: Learn and practice defining and differentiating between different types of sampling techniques.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8234	Activity Quiz: Sampling Techniques	Assessment: Demonstrate understanding of defining and differentiating between different types of sampling techniques.
		Apply Sampling	Use different types of sampling techniques to collect data.	M8235	Instruction/Practice: Apply Sampling	Instruction/Supported Practice: Learn and practice using different types of sampling techniques to collect data.
				M8236	Activity Quiz: Apply Sampling	Assessment: Demonstrate understanding of defining and differentiating between different types of sampling techniques.
		Sample Bias	Identify whether a sample is biased.	M8237	Instruction/Practice 1: Sample Bias	Instruction/Supported Practice: Learn and practice identifying whether a sample is biased.
				M8238	Independent Practice 1: Sample Bias	Independent Practice: Practice identifying whether a sample is biased.
				M8239	Activity Quiz 1: Sample Bias	Assessment: Demonstrate understanding of identifying whether a sample is biased.
				M8240	Instruction/Practice 2: Sample Bias	Instruction/Supported Practice: Learn and practice identifying whether a sample is biased.
				M8241	Independent Practice 2: Sample Bias	Independent Practice: Practice identifying whether a sample is biased.
				M8242	Activity Quiz 2: Sample Bias	Assessment: Demonstrate understanding of identifying whether a sample is biased.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Explore Probability I	Use the Probability tool to investigate the difference between experimental and theoretical probability on number cubes and spinners.	M8512	Supported Practice: Explore Probability I	Supported Practice: Practice using the Probability tool to investigate the difference between experimental and theoretical probability on number cubes and spinners.
		Explore Probability II	Use the Probability tool to investigate conditional probability with marbles.	M8513	Supported Practice: Explore Probability II	Supported Practice: Practice using the Probability tool to investigate conditional probability with marbles.
Data and Statistics	This chapter addresses different data representations and the measures of central tendency.	Data Representations	Interpret circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.	M8243	Instruction/Practice 1: Data Representations	Instruction/Supported Practice: Learn and practice interpreting circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.
				M8244	Independent Practice 1: Data Representations	Independent Practice: Practice interpreting circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.
				M8245	Activity Quiz 1: Data Representations	Assessment: Demonstrating understanding of interpreting circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.
				M8246	Instruction/Practice 2: Data Representations	Instruction/Supported Practice: Learn and practice interpreting circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8247	Independent Practice 2: Data Representations	Independent Practice: Practice interpreting circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.
				M8248	Activity Quiz 2: Data Representations	Assessment: Demonstrating understanding of interpreting circle, line, bar, histogram, stem-and-leaf, and box-and-whisker graphs including how different displays lead to different interpretations.
		Statistics	Identify and explain how statistics and graphs can be used in misleading ways.	M8249	Instruction/Practice 1: Statistics	Instruction/Supported Practice: Learn and practice identifying and explaining how statistics and graphs can be used in misleading ways.
				M8250	Independent Practice 1: Statistics	Independent Practice: Practice identifying and explaining how statistics and graphs can be used in misleading ways.
				M8251	Activity Quiz 1: Statistics	Assessment: Demonstrate understanding of identifying and explaining how statistics and graphs can be used in misleading ways.
				M8252	Instruction/Practice 2: Statistics	Instruction/Supported Practice: Learn and practice identifying and explaining how statistics and graphs can be used in misleading ways.
				M8253	Independent Practice 2: Statistics	Independent Practice: Practice identifying and explaining how statistics and graphs can be used in misleading ways.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				M8254	Activity Quiz 2: Statistics	Assessment: Demonstrate understanding of identifying and explaining how statistics and graphs can be used in misleading ways.
		Mean, Median and Mode	Determine appropriate measures of central tendency for a given situation or set of data.	M8255	Instruction/Practice 1: Mean, Median and Mode	Instruction/Supported Practice: Learn and practice determining the appropriate measures of central tendency for a given situation or data set.
				M8256	Independent Practice 1: Mean, Median and Mode	Independent Practice: Practice determining the appropriate measures of central tendency for a given situation or data set.
				M8257	Activity Quiz 1: Mean, Median and Mode	Assessment: Demonstrating understanding of determining the appropriate measures of central tendency for a given situation or data set.
				M8258	Instruction/Practice 2: Mean, Median and Mode	Instruction/Supported Practice: Learn and practice determining the appropriate measures of central tendency for a given situation or data set.
				M8259	Independent Practice 2: Mean, Median and Mode	Independent Practice: Practice determining the appropriate measures of central tendency for a given situation or data set.
				M8260	Activity Quiz 2: Mean, Median and Mode	Assessment: Demonstrating understanding of determining the appropriate measures of central tendency for a given situation or data set.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Technology	Use technology to determine the mean, median, mode, and range of a set of real world data.	M8261	Instruction/Practice: Technology	Instruction/Supported Practice: Learn and practice using technology to determine the mean, median, mode, and range of a set of real world data.
				M8262	Activity Quiz: Technology	Assessment: Demonstrate understanding of using technology to determine the mean, median, mode, and range of a set of real world data.
		Explore Central Tendency	Use the Data Representation tool to investigate the mean, median, mode and range in various types of data sets.	M8514	Supported Practice: Explore Central Tendency	Supported Practice: Practice using the Data Representation tool to investigate the mean, median, mode, and range in various types of data sets.
		Explore Statistical Plots	Use the Data Representation tool to investigate stem-and-leaf and box-and-whisker plots.	M8515	Supported Practice: Explore Statistical Plots	Supported Practice: Practice using the Data Representation tool to investigate stem-and-leaf and box-and-whisker plots.
		Explore Scatterplots	Use the Coordinate Graphing tool to investigate scatterplots and relationships between variables.	M8511	Supported Practice: Explore Scatterplots	Supported Practice: Practice using the Coordinate Graphing tool to investigate scatterplots and relationships between variables.
Mathematical Practices	This chapter addresses the Mathematical Practice standards.	Make Sense of Problems and Persevere	Students will make sense of problems and persevere in solving them.	MA89011	Instruction: Make Sense of Problems and Persevere	Instruction: Learn to make sense of problems and persevere in solving them.
		Reason Abstractly and Quantitatively	Students will reason abstractly and quantitatively.	MA89012	Instruction: Creating and Using Representations	Instruction: Learn to create and use representations to solve problems.
		Construct Viable Arguments and Critique Reasoning	Students will construct viable arguments and critique the reasoning of others.	MA89013	Instruction: Constructing Viable Arguments and Critiquing the Reasoning of Others	Instruction: Learn to construct viable arguments and critique the reasoning of others.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Model with Mathematics	Students will model with mathematics.	MA89014	Instruction: Modeling with Mathematics	Instruction: Learn to model mathematical problems.
		Use Appropriate Tools Strategically	Students will use appropriate tools strategically.	MA89015	Instruction: Using Tools and Strategies to Solve Problems	Instruction: Learn to use tools and strategies to solve problems.
		Attend to Precision	Students will attend to precision.	MA89016	Instruction: Attending to Precision	Instruction: Learn to attend to precision.
		Look for and Make Use of Structure	Students will look for and make use of structure.	MA89017	Instruction: Looking For and Making Use of Structure	Instruction: Learn to look for and make use of structure.
		Express Regularity in Repeated Reasoning	Students will express regularity in repeated reasoning.	MA89018	Instruction: Looking For and Expressing Regularity in Repeated Reasoning	Instruction: Learn to look for and express regularity in repeated reasoning.
Mathematical Processes	This chapter addresses the Mathematical Process standards.	Apply Mathematics to Real-World Problems	Students will apply mathematics to real-world problems.	MA89001	Instruction: Applying Mathematics to Problems in Everyday Life	Instruction: Learn to apply math to solve everyday problems.
		Use a Problem-Solving Model	Students will use a problem-solving model.	MA89002	Instruction: Using a Problem-Solving Model	Instruction: Learn to use a problem-solving model.
		Select Appropriate Tools	Students will select appropriate tools.	MA89003	Instruction: Using Tools and Strategies to Solve Problems	Instruction: Learn to select and use tools and strategies to solve problems.
		Communicate Reasoning	Students will communicate reasoning.	MA89004	Instruction: Communicating Mathematical Ideas and Reasoning	Instruction: Learn to communicate mathematical ideas and to explain your reasoning.
		Create and Use Representations	Students will create and use representations.	MA89005	Instruction: Creating and Using Representations	Instruction: Learn to create and use representations to solve problems.
		Analyze Relationships	Students will analyze relationships.	MA89006	Instruction: Analyzing Mathematical Relationships	Instruction: Learn to analyze mathematical relationships to solve problems.
		Use Precise Mathematical Language	Students will use precise mathematical language.	MA89007	Instruction: Displaying and Explaining Mathematical Ideas	Instruction: Learn to explain mathematical ideas using precise language and visual diagrams.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
Practice	This chapter contains additional practice activities.	Add/Subtract Integers	Review positive and negative values and the number line. Determine absolute value. Add and subtract positive and negative integers. Use equivalent expressions to subtract positive and negative integers.	8059	Instruction Practice: Add/Subtract Integers I	Instruction/Independent Practice: Learn and practice determining absolute value. Identify operations to add integers. Use equivalent expressions to subtract integers. Add and subtract positive and negative integers.
				8101	Supported Practice: Add/Subtract Integers II	Supported Practice: Practice determining absolute value. Identify operations to add integers. Use equivalent expressions to subtract integers. Add and subtract positive and negative integers.
		Divisibility	Learn and apply the rules of divisibility. Determine divisibility.	8060	Instruction/Practice: Divisibility I	Instruction/Independent Practice: Learn and practice applying the rules of divisibility.
				8102	Supported Practice: Divisibility II	Supported Practice: Practice applying the rules of divisibility.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Multiply/Divide Integers	Recognize multiplication on a number line. Review rules for signs of products and quotients. Multiply and divide positive and negative integers. Multiply more than two integers. Investigate the commutative property, the multiplicative property of 0, the distributive property, and the associative property.	8061	Instruction/Practice: Multiply/Divide Integers I	Instruction/Independent Practice: Learn and practice multiplying and dividing positive and negative integers.
				8103	Supported Practice: Multiply/Divide Integers II	Supported Practice: Practice learning to determine the amount of increase or decrease, setting up proportions, and calculating percent increase or decrease.
		Integers as Exponents	Review the rules for signs in exponential expressions. Identify base and exponent. Evaluate expressions with positive and negative bases. Evaluate expressions with positive and negative exponents. Convert between negative exponents and fractions.	8062	Instruction/Practice: Integers as Exponents I	Instruction/Independent Practice: Learn and practice evaluating expressions with positive and negative bases, expressions with positive and negative exponents, and converting between negative exponents and fractions.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				8104	Supported Practice: Integers as Exponents II	Supported Practice: Practice evaluating expressions with positive and negative bases, expressions with positive and negative exponents, and converting between negative exponents and fractions.
		Use Powers of Ten	Multiply and divide by powers of ten. Use exponents for powers of ten. Multiply by decimal powers of ten. Apply mental math.	8063	Instruction/Practice: Use Powers of Ten I	Instruction/Independent Practice: Learn and practice multiplying and dividing by powers of ten, using exponents for powers of ten, multiplying by decimal powers of ten, and applying mental math.
				8105	Supported Practice: Use Powers of Ten II	Supported Practice: Practice multiplying and dividing by powers of ten, using exponents for powers of ten, multiplying by decimal powers of ten, and applying mental math.
		Solve Using Add/Subtract	Identify inverse operations. Use addition and subtraction to solve equations. Solve equations with negative numbers. Check work by substituting a solution for the unknown.	8064	Instruction/Practice: Solve Using Add/Subtract I	Instruction/Independent Practice: Practice identifying inverse operations, using addition and subtraction to solve equations, solving equations with negative numbers, and checking work by substituting a solution for the unknown.
				8106	Supported Practice: Solve Using Add/Subtract II	Supported Practice: Practice identifying inverse operations, using addition and subtraction to solve equations, solving equations with negative numbers, and checking work by substituting a solution for the unknown.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Rational Numbers Properties	Learn the definition of a rational number. Complete equations. Learn properties of addition and multiplication.	8065	Instruction/Practice: Rational Numbers Properties I	Instruction/Independent Practice: Learn and practice completing equations and learning properties of addition and multiplication.
				8107	Supported Practice: Rational Numbers Properties II	Supported Practice: Practice completing equations and learning properties of addition and multiplication.
		Squares and Square Roots	Calculate squares and square roots. Find the principal and negative square roots. Estimate square roots.	8066	Instruction/Practice: Squares and Square Roots I	Instruction/Independent Practice: Learn and practice calculating squares and square roots, finding the principal and negative square roots, and estimating square roots.
				8108	Supported Practice: Squares and Square Roots II	Supported Practice: Practice calculating squares and square roots, finding the principal and negative square roots, and estimating square roots.
		Multiply Mixed Numbers	Learn and apply steps to multiply fractions. Convert mixed numbers to improper fractions. Use shortcuts with multiplication.	8067	Instruction/Practice: Multiply Mixed Numbers I	Instruction/Independent Practice: Learn and practice applying steps to multiply fractions, converting mixed numbers to improper fractions, and using shortcuts with multiplication.
				8109	Supported Practice: Multiply Mixed Numbers II	Supported Practice: Practice applying steps to multiply fractions, converting mixed numbers to improper fractions, and using shortcuts with multiplication.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Divide Mixed Numbers	Learn and apply steps to divide whole numbers and mixed numbers. Convert mixed numbers to improper fractions. Divide using reciprocals. Simplify answers.	8068	Instruction/Practice: Divide Mixed Numbers I	Instruction/Independent Practice: Learn and practice applying steps to divide whole numbers and mixed numbers, converting mixed numbers to improper fractions, dividing using reciprocals, and simplifying answers.
				8110	Supported Practice: Divide Mixed Numbers II	Supported Practice: Practice applying steps to divide whole numbers and mixed numbers, converting mixed numbers to improper fractions, dividing using reciprocals, and simplifying answers.
		GCF and LCM	Identify prime factors. Determine the greatest common factor (GCF) and the least common multiple (LCM).	8069	Instruction/Practice: GCF and LCM I	Instruction/Independent Practice: Learn and practice identifying prime factors and determining the greatest common factor (GCF) and the least common multiple (LCM).
				8111	Supported Practice: GCF and LCM II	Supported Practice: Practice identifying prime factors and determining the greatest common factor (GCF) and the least common multiple (LCM).
		Estimate by Rounding Decimals	Learn and apply methods of estimation. Estimate sums, differences, products, and quotients.	8070	Instruction/Practice: Estimate by Rounding Decimals I	Instruction/Independent Practice: Learn and practice applying methods of estimation and estimating sums, differences, products, and quotients.
				8112	Supported Practice: Estimate by Rounding Decimals II	Supported Practice: Practice applying methods of estimation and estimating sums, differences, products, and quotients.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Add/Sub Decimals & Fractions	Use absolute value to add decimals. Add fractions using the least common denominator (LCD). Subtract by adding the opposite value. Apply rules for signs.	8071	Instruction/Practice: Add/Subtract Decimals and Fractions I	Instruction/Independent Practice: Learn and practice using absolute value to add decimals, adding fractions using the least common denominator (LCD), subtracting by adding the opposite value, and applying rules for signs.
				8113	Supported Practice: Add/Subtract Decimals and Fractions II	Supported Practice: Practice using absolute value to add decimals, adding fractions using the least common denominator (LCD), subtracting by adding the opposite value, and applying rules for signs.
		Percents, Fractions, Decimals	Convert percents, fractions, and decimals. Convert complex percents to decimals and fractions.	8072	Instruction/Practice: Percents, Fractions, and Decimals I	Instruction/Independent Practice: Learn and practice converting percents, fractions, decimals, and complex percents to decimals and fractions.
				8114	Supported Practice: Percents, Fractions, and Decimals II	Supported Practice: Practice converting percents, fractions, decimals, and complex percents to decimals and fractions.
		Percent Proportions	Set up and solve percent proportions. Use shortcuts with common fractions.	8073	Instruction/Practice: Percent Proportions I	Instruction/Independent Practice: Learn and practice setting up and solving percent proportions and using shortcuts with common fractions.
				8115	Supported Practice: Percent Proportions II	Supported Practice: Practice setting up and solving percent proportions and using shortcuts with common fractions.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Sales Tax and Discount	Set up proportions. Calculate discount, sale price, sales tax, and total cost.	8074	Instruction/Practice: Sales Tax and Discount I	Instruction/Independent Practice: Learn and practice setting up proportions to calculate discount, sale price, sales tax, and total cost.
				8116	Supported Practice: Sales Tax and Discount II	Supported Practice: Practice setting up proportions to calculate discount, sale price, sales tax, and total cost.
		Percent of Increase/Decrease	Learn to calculate the amount of increase or decrease. Set up proportions. Calculate percent increase or decrease.	8075	Instruction/Practice: Percent of Increase/Decrease I	Instruction/Independent Practice: Learn and practice calculating the amount of increase or decrease through use of proportions.
				8117	Supported Practice: Percent of Increase/Decrease II	Supported Practice: Practice calculating the amount of increase or decrease through use of proportions.
		Ratio, Rate, and Proportion	Understand ratios, rates, and proportions. Use proportions to solve word problems. Find the unit rate.	8076	Instruction/Practice: Ratio, Rate, and Proportion I	Instruction/Independent Practice: Learn and practice using proportions involving ratios and rates to solve word problems including solving for unit rate.
				8118	Supported Practice: Ratio, Rate, and Proportion II	Supported Practice: Practice using proportions involving ratios and rates to solve word problems including solving for unit rate.
		1-Step Add/Sub Word Problems	Use a 5-step strategy for solving word problems. Add and subtract whole numbers and decimal numbers.	8077	Instruction/Practice: 1-Step Add/Subtract Word Problems I	Instruction/Independent Practice: Learn and practice using problem solving strategies to solve one-step addition and subtraction word problems and real world problems.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				8119	Supported Practice: 1-Step Add/Subtract Word Problems II	Supported Practice: Practice using problem solving strategies to solve one-step addition and subtraction word problems and real world problems.
		Surface Area: Pyramids & Cones	Calculate the surface area of square pyramids, rectangular pyramids, and cones.	8088	Practice: Surface Area of Pyramids and Cones	Supported Practice/Independent Practice: Practice calculating surface area of square pyramids, rectangular pyramids, and cones.
		Solve Using Multiply/Divide	Identify inverse operations. Use multiplication and division to solve equations. Use reciprocals to solve equations with fractions. Check work by substituting a solution for the unknown.	8078	Instruction/Practice: Solve Using Multiply/Divide I	Instruction/Independent Practice: Learn and practice identifying inverse operations, using multiplication and division to solve equations, using reciprocals to solve equations with fractions, and checking work by substituting a solution for the unknown.
				8120	Supported Practice: Solve Using Multiply/Divide II	Supported Practice: Practice identifying inverse operations, using multiplication and division to solve equations, using reciprocals to solve equations with fractions, and checking work by substituting a solution for the unknown.
		Solve 2-Step Equations	Determine the order of operations for two-step equations. Solve two-step equations.	8079	Instruction/Practice: Solve 2-Step Equations I	Instruction/Independent Practice: Learn and practice determining the order of operations for two-step equations and then solving two-step equations.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				8121	Supported Practice: Solve 2-Step Equations II	Supported Practice: Practice determining the order of operations for two-step equations and then solving two-step equations.
		Graph Sentences	Solve and graph single and compound inequalities. Reverse the sign when multiplying and dividing by a negative number.	8080	Instruction/Practice: Graph Sentences I	Instruction/Independent Practice: Learn and practice solving and graphing single and compound inequalities both from numerical and real world problems.
				8122	Supported Practice: Graph Sentences II	Supported Practice: Practice solving and graphing single and compound inequalities both from numerical and real world problems.
		Graph Linear Equations	Learn the steps to graph equations. Find x- and y-values. Write ordered pairs. Graph equations on the coordinate plane.	8081	Instruction/Practice: Graph Linear Equations I	Instruction/Independent Practice: Learn and practice graphing linear equations by finding x- and y-values, making a table with the ordered pairs, and then graphing the ordered pairs to form a line.
				8123	Supported Practice: Graph Linear Equations II	Supported Practice: Practice graphing linear equations by finding x- and y-values, making a table with the ordered pairs, and then graphing the ordered pairs to form a line.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Graph Inequalities	Learn to graph inequalities with lines and shading. Solve inequalities. Identify ordered pairs. Plot ordered pairs and shade. Graph inequalities. Recognize correct lines and shading.	8082	Instruction/Practice: Graph Inequalities I	Instruction/Independent Practice: Learn and practice solving inequalities by identifying ordered pairs, plotting ordered pairs, recognizing correct lines and shading.
				8124	Supported Practice: Graph Inequalities II	Supported Practice: Practice solving inequalities by identifying ordered pairs, plotting ordered pairs, recognizing correct lines and shading.
		Lines and Angles	Identify angle relationships. Calculate angle measurements.	8083	Instruction/Practice: Lines and Angles I	Instruction/Independent Practice: Learn and practice recognizing angle relationships and calculating angle measurements.
				8125	Supported Practice: Lines and Angles II	Supported Practice: Practice recognizing angle relationships and calculating angle measurements.
		Polygons	Recognize regular and irregular polygons. Identify types of quadrilaterals. Find the sum of interior angles. Find interior angles in a regular polygon.	8084	Instruction/Practice: Polygons I	Instruction/Independent Practice: Learn and practice recognizing regular and irregular polygons, identifying types of quadrilaterals, finding the sum of interior angles, and finding interior angle measures in a regular polygon.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				8126	Supported Practice: Polygons II	Supported Practice: Practice recognizing regular and irregular polygons, identifying types of quadrilaterals, finding the sum of interior angles, and finding interior angle measures in a regular polygon.
		Congruent/Similar Figures	Define congruence and similarity. Identify corresponding vertices, sides, and angles. Find missing measures for congruent and similar figures.	8085	Instruction/Practice: Congruent/Similar Figures I	Instruction/Independent Practice: Learn and practice recognizing congruence and similarity, identifying corresponding vertices, sides, and angles, and finding missing measures for congruent and similar figures.
				8127	Supported Practice: Congruent/Similar Figures II	Supported Practice: Practice recognizing congruence and similarity, identifying corresponding vertices, sides, and angles, and finding missing measures for congruent and similar figures.
		Perimeter and Area	Learn the formulas for the area of rectangles, parallelograms, triangles, and trapezoids. Calculate perimeter and area.	8086	Instruction/Practice: Perimeter and Area I	Instruction/Independent Practice: Learn and practice calculating perimeter and area by using the correct formula for the perimeter or area of rectangles, parallelograms, triangles, and trapezoids.
				8128	Supported Practice: Perimeter and Area II	Supported Practice: Practice calculating perimeter and area by using the correct formula for the perimeter or area of rectangles, parallelograms, triangles, and trapezoids.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Circles: Circumference & Area	Learn the characteristics of circles. Learn the formulas for circumference and area. Calculate circumference, diameter, radius, and area.	8087	Instruction/Practice: Circumference and Area of Circles I	Instruction/Independent Practice: Learn and practice identifying the radius and diameter of a circle and using the correct formula to solve for area or perimeter.
				8129	Supported Practice: Circumference and Area of Circles II	Supported Practice: Practice identifying the radius and diameter of a circle and using the correct formula to solve for area or perimeter.
		Surface Area: Prisms/Cylinders	Calculate the surface area of cubes, prisms, and cylinders. Investigate faces and edges.	8089	Practice: Surface Area of Prisms and Cylinders	Supported Practice/Independent Practice: Practice calculating surface area of cubes, prisms, and cylinders, and investigating faces and edges.
		Volume of Prisms and Cylinders	Learn the formulas for the volume of prisms and cylinders. Calculate the volume of prisms and cylinders. Find the area of the base or the height.	8090	Practice: Volume of Prisms and Cylinders	Supported Practice/Independent Practice: Practice calculating volume of rectangular prisms, triangular prisms, pentagonal prisms, and cylinders.
		Volume of Pyramids and Cones	Recognize types of pyramids. Learn the formulas for the volume of pyramids and cones. Calculate the volume of pyramids and cones.	8091	Practice: Volume of Pyramids and Cones	Supported Practice/Independent Practice: Practice calculating volume of rectangular pyramids, triangular pyramids, pentagonal pyramids, and cones.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Pythagorean Theorem	Learn to apply the Pythagorean theorem. Calculate the length of the hypotenuse or the legs. Determine whether given measurements form a right triangle. Determine Pythagorean triples.	8092	Instruction/Practice: Pythagorean Theorem I	Instruction/Independent Practice: Learn and practice calculating the length of the hypotenuse or the legs of a right triangle and determining whether given measurements form a right triangle. Determine Pythagorean triples.
				8130	Supported Practice: Pythagorean Theorem II	Supported Practice: Practice calculating the length of the hypotenuse or the legs of a right triangle and determining whether given measurements form a right triangle. Determine Pythagorean triples.
		Special Right Triangles	Calculate the hypotenuse and leg measurements of special right triangles.	8093	Instruction/Practice: Special Right Triangles I	Instruction/Independent Practice: Learn and practice calculating the hypotenuse and leg measurements of special right triangles.
				8131	Supported Practice: Special Right Triangles II	Supported Practice: Practice calculating the hypotenuse and leg measurements of special right triangles.
		Circle Graphs	Determine central angles. Use proportions to determine percentages. Interpret graphs.	8094	Instruction/Practice: Circle Graphs I	Instruction/Independent Practice: Learn and practice creating circle graphs, finding the degrees and percentages of the central angles, and interpreting circle graphs.
				8132	Supported Practice: Circle Graphs II	Supported Practice: Practice creating circle graphs, finding the degrees and percentages of the central angles, and interpreting circle graphs.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Histograms	Create frequency charts and histograms. Interpret data from histograms.	8095	Instruction/Practice: Histograms I	Instruction/Independent Practice: Learn and practice creating frequency charts and histograms and interpreting data from histograms.
				8133	Supported Practice: Histograms II	Supported Practice: Practice creating frequency charts and histograms and interpreting data from histograms.
		Scatter Plots	Create scatter plots. Determine correlation. Predict correlation without plotting.	8096	Instruction/Practice: Scatter Plots I	Instruction/Independent Practice: Learn and practice creating and interpreting scatter plots, determining correlation, predicting correlation without plotting, and drawing the line of best fit.
				8134	Supported Practice: Scatter Plots II	Supported Practice: Practice creating and interpreting scatter plots, determining correlation, predicting correlation without plotting, and drawing the line of best fit.
		Stem-and-Leaf Plots	Create stem-and-leaf plots. Interpret plots. Find mode and median. Use double plots.	8097	Instruction/Practice: Stem-and-Leaf Plots I	Instruction/Independent Practice: Learn and practice creating and interpreting single and double stem-and-leaf plots.
				8135	Supported Practice: Stem-and-Leaf Plots II	Supported Practice: Practice creating and interpreting single and double stem-and-leaf plots.
		Box-and-Whisker Plots	Identify extremes, quartiles, median, and range of an ordered set. Graph box-and-whisker plots. Interpret plots. Compare two sets of data.	8098	Instruction/Practice: Box-and-Whisker Plots I	Instruction/Independent Practice: Learn and practice creating and interpreting box-and-whisker plots and identifying extremes, quartiles, median, and range of an ordered set.

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Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
				8136	Supported Practice: Box-and-Whisker Plots II	Supported Practice: Practice creating and interpreting box-and-whisker plots and identifying extremes, quartiles, median, and range of an ordered set.
		Probability of Events	Recognize dependent and independent events. Calculate the probability of single and compound independent events. Calculate the probability of dependent events.	8099	Instruction/Practice: Probability of Events I	Instruction/Independent Practice: Learn and practice recognizing dependent and independent events, calculating the probability of single and compound independent events, and calculating the probability of dependent events.
				8137	Supported Practice: Probability of Events II	Supported Practice: Practice recognizing dependent and independent events, calculating the probability of single and compound independent events, and calculating the probability of dependent events.
		Combinations and Permutations	Determine expressions for permutations and combinations. Learn factorial notation. Calculate permutations and combinations.	8100	Instruction/Practice: Combinations and Permutations I	Instruction/Supported Practice: Learn and practice determining expressions for permutations and combinations, demonstrating factorial notation, and solving permutations and combinations.
				8138	Independent Practice: Combinations and Permutations II	Independent Practice: Practice determining expressions for permutations and combinations, demonstrating factorial notation, and solving permutations and combinations.

## Math 8: Scope and Sequence

Chapter Title	Chapter Description	Lesson Title	Lesson Description	Activity Code	Activity Title	Activity Description
		Number Combinations	Review strategies to solve a problem. Solve a problem using all possibilities, a table, and patterns.	8139	Practice: Number Combinations	Supported Practice/Independent Practice: Practice solving a problem using various problem solving strategies and finding the arrangement of digits that yields the highest value and recognize the pattern of the arrangement.
		Number Expansion	Review strategies to solve a problem. Solve a problem using a simpler problem, drawings, a table, and patterns.	8140	Practice: Number Expansion	Supported Practice/Independent Practice: Practice solving word problems using systematic strategies to find your answer, such as solving a simpler problem, drawings, a table, and patterns.
		Number Sequences	Review strategies to solve a problem. Solve a problem by finding a pattern and guessing.	8141	Practice: Number Sequences	Supported Practice/Independent Practice: Practice solving problems by finding patterns in numbers using problem solving strategies.
		Area	Review strategies to solve a problem. Solve a problem by using a table, drawings, and guessing.	8142	Practice: Area	Supported Practice/Independent Practice: Practice solving for the largest area possible when given the perimeter of a figure using various problem solving strategies.
		Probability	Solve a problem using a table.	8143	Practice: Probability	Supported Practice/Independent Practice: Practice solving a probability problem using various problem solving strategies.