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PA Core Mathematics Curriculum Map

151 items · Pennsylvania State Core Standards

Arranged by subject (Math), then PA domain, then item ID. Each row lists the PA Core standard, its CCRS code and grade-level grouping, and the matching Pace Prescription lesson(s).

PA Core Math (151 items)

Algebraic Concepts (44 items)

ID	PA Core Domain	Standard ID & CCRS	Descriptor	Pace Prescription	Pace Mastery Check
PA-M-5	Algebraic Concepts	**CC.2.2.K.A.1** **Grade level:** A (K-1st) **CCRS:** 2.OA.1	Extend the concepts of putting together and taking apart to add and subtract within 10.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting single-digit numbers (frames 1-8); subtracting using borrowing (frames 14-17)
PA-M-13	Algebraic Concepts	**CC.2.2.1.A.1** **Grade level:** A (K-1st) **CCRS:** 2.OA.1	Represent and solve problems involving addition and subtraction within 20.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting single-digit numbers (frames 1-8); subtracting using borrowing (frames 14-17)
PA-M-14	Algebraic Concepts	**CC.2.2.1.A.2** **Grade level:** A (K-1st) **CCRS:** 1.OA.3	Understand and apply properties of operations and the relationship between addition and subtraction.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting using borrowing (frames 14-17); subtracting two or more digits (frames 9-13)
PA-M-23	Algebraic Concepts	**CC.2.2.2.A.1** **Grade level:** B (2nd-3rd) **CCRS:** 2.OA.1	Represent and solve problems involving addition and subtraction within 100.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting single-digit numbers (frames 1-8); subtracting using borrowing (frames 14-17)
PA-M-24	Algebraic Concepts	**CC.2.2.2.A.2** **Grade level:** B (2nd-3rd) **CCRS:** 2.OA.2	Use mental strategies to add and subtract within 20.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting using borrowing (frames 14-17); subtracting two or more digits (frames 9-13)

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PA-M-25	**Algebraic Concepts**	**CC.2.2.2.A.3** **Grade level:** B (2nd-3rd) **CCRS:** 3.OA.1	Work with equal groups of objects to gain foundations for multiplication.	Math At Your Own Pace 115, Multiplying Whole Numbers	**Math At Your Own Pace 115** multiplying a two-digit by a two-digit number (frames 22-28); multiplying a two-digit number by a one-digit number (frames 14-21)
PA-M-35	**Algebraic Concepts**	**CC.2.2.3.A.1** **Grade level:** B (2nd-3rd) **CCRS:** 3.OA.4	Represent and solve problems involving multiplication and division.	Math At Your Own Pace 115, Multiplying Whole Numbers Math At Your Own Pace 120, Dividing Whole Numbers	**Math At Your Own Pace 115** multiplying a two-digit by a two-digit number (frames 22-28); multiplying a two-digit number by a one-digit number (frames 14-21) **Math At Your Own Pace 120** dividing in long division form (frames 6-7); dividing three-digit dividends (frames 14-19; 20-25)
PA-M-36	**Algebraic Concepts**	**CC.2.2.3.A.2** **Grade level:** B (2nd-3rd) **CCRS:** 3.OA.6	Understand properties of multiplication and the relationship between multiplication and division.	Math At Your Own Pace 115, Multiplying Whole Numbers Math At Your Own Pace 120, Dividing Whole Numbers	**Math At Your Own Pace 115** multiplying a two-digit by a two-digit number (frames 22-28); multiplying a two-digit number by a one-digit number (frames 14-21) **Math At Your Own Pace 120** dividing in long division form (frames 6-7); dividing three-digit dividends (frames 14-19; 20-25)
PA-M-37	**Algebraic Concepts**	**CC.2.2.3.A.3** **Grade level:** B (2nd-3rd) **CCRS:** 3.OA.7	Demonstrate multiplication and division fluency.	Math At Your Own Pace 115, Multiplying Whole Numbers Math At Your Own Pace 120, Dividing Whole Numbers	**Math At Your Own Pace 115** multiplying a two-digit by a two-digit number (frames 22-28); multiplying a two-digit number by a one-digit number (frames 14-21) **Math At Your Own Pace 120** dividing in long division form (frames 6-7); dividing three-digit dividends (frames 14-19; 20-25)
PA-M-38	**Algebraic Concepts**	**CC.2.2.3.A.4** **Grade level:** B (2nd-3rd) **CCRS:** 3.OA.9	Solve problems involving the four operations, and identify and explain patterns in arithmetic.	Basic Math 190, Applications Using Whole and Decimal Numbers Basic Math 450, Data Collection and Analysis	**Basic Math 190** using multiplication clues to solve a word problem with money amounts (frames 33 - 46); using multiplication clues to solve a word problem (frames 33 - 46) **Basic Math 450** finding missing numbers in a series (frames 43 - 51); identifying the control group in an experiment (frames 8 - 18)
PA-M-52	**Algebraic Concepts**	**CC.2.2.4.A.1** **Grade level:** C (4th-5th) **CCRS:** 4.OA.3	Represent and solve problems involving the four operations.	Basic Math 190, Applications Using Whole and Decimal Numbers Advanced Math 450, Solving Word Problems	**Basic Math 190** using subtraction clues to solve a word problem (frames 17 - 31); using subtraction clues to solve a word problem with money amounts (frames 17 - 31) **Advanced Math 450** setting up problems involving numbers; solving problems involving numbers
PA-M-53	**Algebraic Concepts**	**CC.2.2.4.A.2** **Grade level:** C (4th-5th) **CCRS:** 4.OA.4	Develop and/or apply number theory concepts to find factors and multiples.	Basic Math 200, Introducing Fractions Advanced Math 130, Exponents	**Basic Math 200** finding common factors (frames 24 - 31); finding the greatest common factor (frames 31 -32) **Advanced Math 130** multiplying numbers with exponents; simplifying a number with a multiplication problem as its base
PA-M-54	**Algebraic Concepts**	**CC.2.2.4.A.4** **Grade level:** C (4th-5th) **CCRS:** 4.OA.5	Generate and analyze patterns using one rule.	Basic Math 450, Data Collection and Analysis *Not yet covered: generating a pattern from a rule; identifying the rule*	**Basic Math 450** identifying the control group in an experiment (frames 8 - 18); defining a random sample (frames 8 - 18)

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PA-M-65	**Algebraic Concepts**	**CC.2.2.5.A.1** **Grade level:** C (4th-5th) **CCRS:** 5.OA.1	Interpret and evaluate numerical expressions using order of operations.	Advanced Math 170, Order of Operations	**Advanced Math 170** order with grouping signs, applying exponents and roots, multiplying, and subtracting; order with grouping signs, reducing fractions, applying exponents and roots, and multiplying
PA-M-66	**Algebraic Concepts**	**CC.2.2.5.A.4** **Grade level:** C (4th-5th) **CCRS:** 5.OA.3	Analyze patterns and relationships using two rules.	Basic Math 450, Data Collection and Analysis *Not yet covered: generating and comparing two patterns from two rules*	**Basic Math 450** finding missing numbers in a series (frames 43 - 51); defining a random sample (frames 8 - 18)
PA-M-86	**Algebraic Concepts**	**CC.2.2.6.B.1** **Grade level:** D (6th-8th) **CCRS:** 6.EE.3	Apply and extend previous understandings of arithmetic to algebraic expressions.	Advanced Math 300, Expressions and Equations Advanced Math 150, Variables	**Advanced Math 300** writing squared and cubed variables in an algebraic expression; evaluating algebraic expressions **Advanced Math 150** correctly writing expressions involving variables; addition involving variables
PA-M-87	**Algebraic Concepts**	**CC.2.2.6.B.2** **Grade level:** D (6th-8th) **CCRS:** 6.EE.5	Understand the process of solving a one-variable equation or inequality and apply it to real-world and mathematical problems.	Advanced Math 320, Solving One-Step Equations Advanced Math 330, Solving Two-Step Equations Advanced Math 340, Solving Inequalities	**Advanced Math 320** solving algebraic equations with addition; solving algebraic subtraction equations **Advanced Math 330** solving two-step equations with the variable on the left; solving two-step equations with the variable on the right **Advanced Math 340** solving inequalities by changing signs; solving and graphing inequalities
PA-M-88	**Algebraic Concepts**	**CC.2.2.6.B.3** **Grade level:** D (6th-8th) **CCRS:** 6.EE.9	Represent and analyze quantitative relationships between dependent and independent variables.	Advanced Math 300, Expressions and Equations Advanced Math 350, Cartesian Coordinates Science 211, Investigations and Experiments	**Advanced Math 300** writing squared and cubed variables in an algebraic expression; evaluating algebraic expressions **Advanced Math 350** graphing linear equations; finding solutions to equations **Science 211** Understanding operationally defined variables (frames 29 – 35); Understanding what a dependent variable is (frames 38 – 42)
PA-M-89	**Algebraic Concepts**	**CC.2.2.7.B.1** **Grade level:** D (6th-8th) **CCRS:** 7.EE.1	Apply properties of operations to generate equivalent expressions.	Advanced Math 310, Algebraic Properties Advanced Math 150, Variables	**Advanced Math 310** identifying true expressions using algebraic properties; using the commutative and associative properties to simplify expressions **Advanced Math 150** correctly writing expressions involving variables; addition involving variables
PA-M-90	**Algebraic Concepts**	**CC.2.2.7.B.3** **Grade level:** D (6th-8th) **CCRS:** 7.EE.3	Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.	Advanced Math 450, Solving Word Problems Advanced Math 300, Expressions and Equations	**Advanced Math 450** setting up problems involving numbers; setting up story problems **Advanced Math 300** evaluating algebraic expressions; writing an algebraic expression from a word expression
PA-M-91	**Algebraic Concepts**	**CC.2.2.8.B.1** **Grade level:** D (6th-8th) **CCRS:** 8.EE.2	Apply concepts of radicals and integer exponents to generate equivalent expressions.	Advanced Math 140, Roots Advanced Math 130, Exponents	**Advanced Math 140** simplifying radicals; solving radicals with a calculator **Advanced Math 130** writing a number with positive exponents; writing multiplication problems as exponents

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PA-M-92	**Algebraic Concepts**	**CC.2.2.8.B.2** **Grade level:** D (6th-8th) **CCRS:** 8.EE.5	Understand the connections between proportional relationships, lines, and linear equations.	Advanced Math 360, Properties of Lines and Segments Advanced Math 370, Graphs of Linear Equations Advanced Math 333, Variation	**Advanced Math 360** finding the midpoint of a line segment; determining the slope of a line **Advanced Math 370** graphing linear equations by plotting points; graphing linear equations from slope and y-intercept **Advanced Math 333** Word problems with proportional relationships (frames 6-8); Solving proportional relationships for x (frames 1-5)
PA-M-93	**Algebraic Concepts**	**CC.2.2.8.B.3** **Grade level:** D (6th-8th) **CCRS:** 8.EE.8	Analyze and solve linear equations and pairs of simultaneous linear equations.	Advanced Math 330, Solving Two-Step Equations Advanced Math 390, Systems of Equations	**Advanced Math 330** solving two-step equations with the variable on the left; solving two-step equations with the variable on the right **Advanced Math 390** solving by linear combination; solving by substitution
PA-M-94	**Algebraic Concepts**	**CC.2.2.8.C.1** **Grade level:** D (6th-8th) **CCRS:** 8.F.3	Define, evaluate, and compare functions.	Advanced Math 373, Functions and Relations	**Advanced Math 373** using the vertical line test to identify a function (frames 12-14); identifying function families (frames 32-45)
PA-M-95	**Algebraic Concepts**	**CC.2.2.8.C.2** **Grade level:** D (6th-8th) **CCRS:** 8.F.4	Use concepts of functions to model relationships between quantities.	Advanced Math 380, Determining the Equation of a Line Advanced Math 373, Functions and Relations	**Advanced Math 380** writing linear equations, given slope and y-intercept; writing an equation in slope-intercept form **Advanced Math 373** identifying function families (frames 32-45); identifying functions and relations (frames 1-8)
PA-M-96	**Algebraic Concepts**	**CC.2.2.HS.D.1** **Grade level:** E (9th-12th) **CCRS:** A.SSE.1	Interpret the structure of expressions to represent a quantity in terms of its context.	Advanced Math 150, Variables Advanced Math 400, Adding and Subtracting Polynomials	**Advanced Math 150** correctly writing expressions involving variables; addition involving variables **Advanced Math 400** determining the degree of a polynomial; determining the type of polynomials
PA-M-97	**Algebraic Concepts**	**CC.2.2.HS.D.2** **Grade level:** E (9th-12th) **CCRS:** A.SSE.3	Write expressions in equivalent forms to solve problems.	Advanced Math 310, Algebraic Properties Advanced Math 420, Factoring Polynomials Advanced Math 440, Solving Quadratic Equations	**Advanced Math 310** using the commutative and associative properties to simplify expressions; identifying true expressions using algebraic properties **Advanced Math 420** factoring quadratic trinomials; factoring the difference of two squares **Advanced Math 440** quadratic formula; quadratic method
PA-M-98	**Algebraic Concepts**	**CC.2.2.HS.D.3** **Grade level:** E (9th-12th) **CCRS:** A.APR.1	Extend the knowledge of arithmetic operations and apply to polynomials.	Advanced Math 400, Adding and Subtracting Polynomials Advanced Math 410, Multiplying Polynomials Advanced Math 430, Dividing Polynomials	**Advanced Math 400** adding polynomials; subtracting polynomials **Advanced Math 410** multiplying a monomial by a polynomial; multiplying a binomial by a trinomial **Advanced Math 430** dividing a polynomial by a monomial; dividing a monomial by a monomial
PA-M-99	**Algebraic Concepts**	**CC.2.2.HS.D.5** **Grade level:** E (9th-12th) **CCRS:** A.APR.4	Use polynomial identities to solve problems.	Advanced Math 410, Multiplying Polynomials Advanced Math 420, Factoring Polynomials	**Advanced Math 410** multiplying two binomials; squaring a binomial **Advanced Math 420** factoring the difference of two squares; factoring the difference of two cubes

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PA-M-100	**Algebraic Concepts**	**CC.2.2.HS.D.7** **Grade level:** E (9th-12th) **CCRS:** A.CED.1	Create and graph equations or inequalities to describe numbers or relationships.	Advanced Math 340, Solving Inequalities Advanced Math 370, Graphs of Linear Equations Advanced Math 450, Solving Word Problems Advanced Math 509, Applied Algebraic Concepts	**Advanced Math 340** graphing inequalities; solving and graphing inequalities **Advanced Math 370** graphing linear equations by plotting points; graphing equations using x- and y-intercepts **Advanced Math 450** setting up problems involving numbers; solving problems involving numbers **Advanced Math 509** solving piecewise functions and greatest integer functions (frames 14-30); solving problems involving linear programming (frames 31-45)
PA-M-101	**Algebraic Concepts**	**CC.2.2.HS.D.8** **Grade level:** E (9th-12th) **CCRS:** A.CED.4	Apply inverse operations to solve equations or formulas for a given variable.	Basic Math 580, Distance, Rate, and Time Problems Advanced Math 160, Operations with Variables Advanced Math 330, Solving Two-Step Equations Lessons in Things 130, Basic Electricity and Circuits *Not yet covered: solving a general formula for a given variable*	**Basic Math 580** knowing the formula for finding distance (frames 1 - 12); finding miles per gallon (frames 45 - 54) **Advanced Math 160** simplifying fractions with variables; adding fractions with variables **Advanced Math 330** solving two-step equations with the variable on the left; solving two-step equations with the variable on the right **Lessons in Things 130** Voltage; Ohm's Law applied
PA-M-102	**Algebraic Concepts**	**CC.2.2.HS.D.9** **Grade level:** E (9th-12th) **CCRS:** A.REI.1	Use reasoning to solve equations and justify the solution method.	Advanced Math 280, Geometric Reasoning and Proof Advanced Math 310, Algebraic Properties Advanced Math 330, Solving Two-Step Equations	**Advanced Math 280** recognizing valid reasoning; recognizing valid reasoning written in symbols **Advanced Math 310** using the distributive property to simplify; using the associative and commutative properties **Advanced Math 330** solving two-step equations with the variable on the left; solving two-step equations after combining like terms
PA-M-103	**Algebraic Concepts**	**CC.2.2.HS.D.10** **Grade level:** E (9th-12th) **CCRS:** A.REI.6	Represent, solve, and interpret equations/inequalities and systems of equations/inequalities algebraically and graphically.	Advanced Math 370, Graphs of Linear Equations Advanced Math 376, Graphing Linear Inequalities Advanced Math 390, Systems of Equations Advanced Math 509, Applied Algebraic Concepts	**Advanced Math 370** graphing linear equations by plotting points; graphing equations using x- and y-intercepts **Advanced Math 376** identifying the inequality that represents a given graph (frames 7-14); graphing inequalities (frames 7-14) **Advanced Math 390** solving by graphing; solving by linear combination **Advanced Math 509** solving piecewise functions and greatest integer functions (frames 14-30); solving problems involving linear programming (frames 31-45)
PA-M-104	**Algebraic Concepts**	**CC.2.2.HS.C.1** **Grade level:** E (9th-12th) **CCRS:** F.IF.2	Use the concept and notation of functions to interpret and apply them in terms of their context.	Advanced Math 373, Functions and Relations	**Advanced Math 373** solving functions using function notation (frames 15-20); finding domain and range of a function (frames 21-35)

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PA-M-105	**Algebraic Concepts**	**CC.2.2.HS.C.2** **Grade level:** E (9th-12th) **CCRS:** F.IF.7	Graph and analyze functions and use their properties to make connections between the different representations.	Advanced Math 370, Graphs of Linear Equations Advanced Math 373, Functions and Relations Advanced Math 509, Applied Algebraic Concepts *Not yet covered: key features of nonlinear and exponential graphs*	**Advanced Math 370** graphing equations using x- and y-intercepts; graphing linear equations from slope and y-intercept **Advanced Math 373** identifying function families (frames 32-45); identifying functions and relations (frames 1-8) **Advanced Math 509** solving piecewise functions and greatest integer functions (frames 14-30); solving problems involving linear programming (frames 31-45)
PA-M-106	**Algebraic Concepts**	**CC.2.2.HS.C.3** **Grade level:** E (9th-12th) **CCRS:** F.BF.1	Write functions or sequences that model relationships between two quantities.	Advanced Math 373, Functions and Relations Lessons in Things 250, The Golden Ratio in Nature *Not yet covered: arithmetic and geometric sequences; combining functions*	**Advanced Math 373** finding domain and range of a function (frames 21-35); identifying function families (frames 32-45) **Lessons in Things 250** Apophenia: finding what you are primed to find; Pattern vs. mechanism
PA-M-107	**Algebraic Concepts**	**CC.2.2.HS.C.5** **Grade level:** E (9th-12th) **CCRS:** F.LE.1	Construct and compare linear, quadratic, and exponential models to solve problems.	Advanced Math 370, Graphs of Linear Equations Advanced Math 440, Solving Quadratic Equations Advanced Math 509, Applied Algebraic Concepts *Not yet covered: exponential models (initial value, growth factor)*	**Advanced Math 370** graphing linear equations by plotting points; graphing linear equations from slope and y-intercept **Advanced Math 440** factoring (two positive solutions); quadratic formula **Advanced Math 509** solving problems involving compound interest (frames 2-9); predicting population growth or decline (Malthusian Model) (frames 10-13)
PA-M-108	**Algebraic Concepts**	**CC.2.2.HS.C.6** **Grade level:** E (9th-12th) **CCRS:** F.IF.4	Interpret functions in terms of the situations they model.	Advanced Math 333, Variation Advanced Math 373, Functions and Relations Advanced Math 509, Applied Algebraic Concepts *Not yet covered: key features of graphs: intervals of increase/decrease, maximum/minimum, end behavior*	**Advanced Math 333** Word problems with proportional relationships (frames 6-8); Solving for direct constant of proportionality (frames 9-15) **Advanced Math 373** identifying function families (frames 32-45); finding domain and range of a function (frames 21-35) **Advanced Math 509** solving piecewise functions and greatest integer functions (frames 14-30); predicting population growth or decline (Malthusian Model) (frames 10-13)
PA-M-138	**Algebraic Concepts**	**CC.2.2.HS.C.4** **Grade level:** E (9th-12th) **CCRS:** F.BF.3	Interpret the effects transformations have on functions and find the inverses of functions.	Advanced Math 373, Functions and Relations Advanced Math 210, Geometric Characteristics *Not yet covered: transformations of function graphs; inverse functions*	**Advanced Math 373** finding domain and range of a function (frames 21-35); identifying function families (frames 32-45) **Advanced Math 210** finding the rotation of a shape; identifying lines of symmetry
PA-M-139	**Algebraic Concepts**	**CC.2.2.HS.C.7** **Grade level:** E (9th-12th) **CCRS:** F.TF.2	Apply radian measure of an angle and the unit circle to analyze the trigonometric functions.	*Prescription in Development* *Not yet covered: radian measure and the unit circle*	

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PA-M-140	**Algebraic Concepts**	**CC.2.2.HS.C.8** **Grade level:** E (9th-12th) **CCRS:** F.TF.5	Choose trigonometric functions to model periodic phenomena and describe the properties of the graphs.	Lessons in Things 240, The Sound of Green *Not yet covered: trigonometric functions modeling periodic phenomena*	**Lessons in Things 240** Wave properties: frequency and amplitude; Wave properties: frequency and amplitude distinguished
PA-M-141	**Algebraic Concepts**	**CC.2.2.HS.C.9** **Grade level:** E (9th-12th) **CCRS:** F.TF.8	Prove the Pythagorean identity and use it to calculate trigonometric ratios.	Advanced Math 271, Right Triangles Advanced Math 510, Scientific Calculator *Not yet covered: the Pythagorean identity*	**Advanced Math 271** using Pythagorean Theorem to solve word problems; using Pythagorean Theorem to find the value of the hypotenuse in a right triangle **Advanced Math 510** Solving algebraic expressions; finding the measurement of an angle given the cosine
PA-M-142	**Algebraic Concepts**	**CC.2.2.HS.D.4** **Grade level:** E (9th-12th) **CCRS:** A.APR.3	Understand the relationship between zeros and factors of polynomials to make generalizations about functions and their graphs.	Advanced Math 420, Factoring Polynomials Advanced Math 440, Solving Quadratic Equations *Not yet covered: graphing a polynomial from its zeros*	**Advanced Math 420** factoring the difference of two squares; factoring quadratic trinomials **Advanced Math 440** factoring (two positive solutions); factoring (perfect square - one solution)
PA-M-143	**Algebraic Concepts**	**CC.2.2.HS.D.6** **Grade level:** E (9th-12th) **CCRS:** A.APR.6	Extend the knowledge of rational functions to rewrite in equivalent forms.	Advanced Math 160, Operations with Variables Advanced Math 430, Dividing Polynomials *Not yet covered: dividing by a polynomial (long division of rational expressions)*	**Advanced Math 160** subtracting expressions with more than one variable; adding expressions with more than one variable **Advanced Math 430** dividing a polynomial by a monomial; dividing a monomial by a monomial

Geometry (33 items)

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PA-M-6	**Geometry**	**CC.2.3.K.A.1** **Grade level:** A (K-1st) **CCRS:** 2.G.1	Identify and describe two- and three-dimensional shapes.	Math At Your Own Pace 410, Plane Geometric Figures Math At Your Own Pace 415, Solid Geometric Figures	**Math At Your Own Pace 410** triangles (frames 23-25); right angles (frames 15-21) **Math At Your Own Pace 415** solid figures (frames 1-15; 1-15, 43-47; 1-5); plane figures (frames 3-8)
PA-M-7	**Geometry**	**CC.2.3.K.A.2** **Grade level:** A (K-1st) **CCRS:** 2.G.1	Analyze, compare, create, and compose two- and three-dimensional shapes.	Math At Your Own Pace 410, Plane Geometric Figures Math At Your Own Pace 415, Solid Geometric Figures	**Math At Your Own Pace 410** triangles (frames 23-25); right angles (frames 15-21) **Math At Your Own Pace 415** solid figures (frames 1-15; 1-15, 43-47; 1-5); plane figures (frames 3-8)
PA-M-15	**Geometry**	**CC.2.3.1.A.1** **Grade level:** A (K-1st) **CCRS:** 2.G.1	Compose and distinguish between two- and three-dimensional shapes based on their attributes.	Math At Your Own Pace 410, Plane Geometric Figures Math At Your Own Pace 415, Solid Geometric Figures	**Math At Your Own Pace 410** triangles (frames 23-25); right angles (frames 15-21) **Math At Your Own Pace 415** solid figures (frames 1-15; 1-15, 43-47; 1-5); plane figures (frames 3-8)

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PA-M-16	**Geometry**	**CC.2.3.1.A.2** **Grade level:** A (K-1st) **CCRS:** 2.G.3	Use the understanding of fractions to partition shapes into halves and quarters.	Math At Your Own Pace 200, Introducing Fractions Math At Your Own Pace 400, Introduction of Shapes and Sizes	**Math At Your Own Pace 200** fractions that equal one (frames 26-28, 35, 39); improper fractions (frames 23-25, 29-33, 36, 40) **Math At Your Own Pace 400** matched halves (frames 12-23); same shape and size (frames 1-11)
PA-M-26	**Geometry**	**CC.2.3.2.A.1** **Grade level:** B (2nd-3rd) **CCRS:** 2.G.1	Analyze and draw two- and three-dimensional shapes having specified attributes.	Math At Your Own Pace 410, Plane Geometric Figures Math At Your Own Pace 415, Solid Geometric Figures	**Math At Your Own Pace 410** triangles (frames 23-25); right angles (frames 15-21) **Math At Your Own Pace 415** solid figures (frames 1-15; 1-15, 43-47; 1-5); plane figures (frames 3-8)
PA-M-27	**Geometry**	**CC.2.3.2.A.2** **Grade level:** B (2nd-3rd) **CCRS:** 2.G.3	Use the understanding of fractions to partition shapes into halves, thirds, and quarters.	Math At Your Own Pace 200, Introducing Fractions Math At Your Own Pace 400, Introduction of Shapes and Sizes	**Math At Your Own Pace 200** fractions that equal one (frames 26-28, 35, 39); improper fractions (frames 23-25, 29-33, 36, 40) **Math At Your Own Pace 400** matched halves (frames 12-23); same shape and size (frames 1-11)
PA-M-39	**Geometry**	**CC.2.3.3.A.1** **Grade level:** B (2nd-3rd) **CCRS:** 3.G.1	Identify, compare, and classify shapes and their attributes.	Math At Your Own Pace 410, Plane Geometric Figures Math At Your Own Pace 415, Solid Geometric Figures	**Math At Your Own Pace 410** triangles (frames 23-25); right angles (frames 15-21) **Math At Your Own Pace 415** solid figures (frames 1-15; 1-15, 43-47; 1-5); spheres (frames 37-42)
PA-M-40	**Geometry**	**CC.2.3.3.A.2** **Grade level:** B (2nd-3rd) **CCRS:** 3.G.2	Use the understanding of fractions to partition shapes into parts with equal areas and express the area of each part as a unit fraction of the whole.	Math At Your Own Pace 200, Introducing Fractions	**Math At Your Own Pace 200** fractions that equal one (frames 26-28, 35, 39); improper fractions (frames 23-25, 29-33, 36, 40)
PA-M-55	**Geometry**	**CC.2.3.4.A.1** **Grade level:** C (4th-5th) **CCRS:** 4.G.1	Draw lines and angles and identify these in two-dimensional figures.	Advanced Math 200, Geometric Forms and Concepts Advanced Math 205, Protractors	**Advanced Math 200** identifying and labeling lines, segments, and rays; identifying three-dimensional figures **Advanced Math 205** using a protractor to measure angles by extending lines; using a protractor to measure identified angles
PA-M-56	**Geometry**	**CC.2.3.4.A.2** **Grade level:** C (4th-5th) **CCRS:** 4.G.2	Classify two-dimensional figures by properties of their lines and angles.	Math At Your Own Pace 410, Plane Geometric Figures Advanced Math 270, Angles and Special Triangles	**Math At Your Own Pace 410** right angles (frames 15-21); parallel lines (frames 7-11) **Advanced Math 270** relationships of angles in intersecting lines; relationships of angles in parallel lines
PA-M-57	**Geometry**	**CC.2.3.4.A.3** **Grade level:** C (4th-5th) **CCRS:** 4.G.3	Recognize symmetric shapes and draw lines of symmetry.	Advanced Math 210, Geometric Characteristics	**Advanced Math 210** identifying lines of symmetry; identifying reflections
PA-M-67	**Geometry**	**CC.2.3.5.A.1** **Grade level:** C (4th-5th) **CCRS:** 5.G.1	Graph points in the first quadrant on the coordinate plane and interpret these points when solving real world and mathematical problems.	Advanced Math 350, Cartesian Coordinates	**Advanced Math 350** reading coordinates given plotted points; graphing linear equations
PA-M-68	**Geometry**	**CC.2.3.5.A.2** **Grade level:** C (4th-5th) **CCRS:** 5.G.3	Classify two-dimensional figures into categories based on an understanding of their properties.	Math At Your Own Pace 410, Plane Geometric Figures Advanced Math 200, Geometric Forms and Concepts	**Math At Your Own Pace 410** triangles (frames 23-25); right angles (frames 15-21) **Advanced Math 200** identifying three-dimensional figures; identifying plane figures

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PA-M-109	**Geometry**	**CC.2.3.6.A.1** **Grade level:** D (6th-8th) **CCRS:** 6.G.1	Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.	Advanced Math 220, Rectangular Perimeter and Area Advanced Math 230, Nonrectangular Perimeter and Area Advanced Math 240, Volume	**Advanced Math 220** using clue words to find area of a square or rectangle in word problems; finding the area of a rectangle **Advanced Math 230** solving 2 step area problems; finding the area of a circle **Advanced Math 240** finding the volume of a rectangular solid (word problems); finding the volume of a rectangular solid
PA-M-110	**Geometry**	**CC.2.3.7.A.1** **Grade level:** D (6th-8th) **CCRS:** 7.G.4	Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume.	Advanced Math 230, Nonrectangular Perimeter and Area Advanced Math 240, Volume Advanced Math 270, Angles and Special Triangles	**Advanced Math 230** solving 2 step area problems; computing the circumference of a circle **Advanced Math 240** finding the volume of a rectangular solid (word problems); finding the volume of a cube (word problems) **Advanced Math 270** finding unknown angle in a triangle when 2 angles are known; finding unknown angle in an isosceles triangle when vertex angle is known
PA-M-111	**Geometry**	**CC.2.3.7.A.2** **Grade level:** D (6th-8th) **CCRS:** 7.G.1	Visualize and represent geometric figures and describe the relationships between them.	Advanced Math 260, Scale Drawings Advanced Math 200, Geometric Forms and Concepts	**Advanced Math 260** find actual circumferences from scale drawings; convert scale to actual distance **Advanced Math 200** identifying three-dimensional figures; identifying plane figures
PA-M-112	**Geometry**	**CC.2.3.8.A.1** **Grade level:** D (6th-8th) **CCRS:** 7.G.6	Apply the concepts of volume of cylinders, cones, and spheres to solve real-world and mathematical problems.	Advanced Math 240, Volume *Not yet covered: volume of cones and spheres*	**Advanced Math 240** finding the volume of a rectangular solid (word problems); finding the volume of a cylinder (word problems)
PA-M-113	**Geometry**	**CC.2.3.8.A.2** **Grade level:** D (6th-8th) **CCRS:** 8.G.4	Understand and apply congruence, similarity, and geometric transformations using various tools.	Advanced Math 272, Congruent and Similar Triangles Advanced Math 210, Geometric Characteristics	**Advanced Math 272** identifying congruent triangles; identifying rules showing congruency **Advanced Math 210** identifying reflections; identifying lines of symmetry
PA-M-114	**Geometry**	**CC.2.3.8.A.3** **Grade level:** D (6th-8th) **CCRS:** 8.G.7	Understand and apply the Pythagorean Theorem to solve problems.	Advanced Math 271, Right Triangles	**Advanced Math 271** using Pythagorean Theorem to find the value of the hypotenuse in a right triangle; using Pythagorean Theorem to find the value of the unmeasured leg in a right triangle
PA-M-115	**Geometry**	**CC.2.3.HS.A.1** **Grade level:** E (9th-12th) **CCRS:** G.CO.2	Use geometric figures and their properties to represent transformations in the plane.	Advanced Math 210, Geometric Characteristics *Not yet covered: translations and dilations, coordinate rules*	**Advanced Math 210** identifying lines of symmetry; identifying reflections
PA-M-116	**Geometry**	**CC.2.3.HS.A.2** **Grade level:** E (9th-12th) **CCRS:** G.CO.6	Apply rigid transformations to determine and explain congruence.	Advanced Math 210, Geometric Characteristics Advanced Math 272, Congruent and Similar Triangles *Not yet covered: translations and sequences of rigid transformations*	**Advanced Math 210** identifying reflections; finding the rotation of a shape **Advanced Math 272** identifying rules showing congruency; identifying congruent triangles

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PA-M-117	**Geometry**	**CC.2.3.HS.A.3** **Grade level:** E (9th-12th) **CCRS:** G.CO.9	Verify and apply geometric theorems as they relate to geometric figures.	Advanced Math 270, Angles and Special Triangles Advanced Math 272, Congruent and Similar Triangles Advanced Math 280, Geometric Reasoning and Proof	**Advanced Math 270** relationships of angles in intersecting lines; relationships of angles in parallel lines **Advanced Math 272** identifying congruent triangles; identifying rules showing congruency **Advanced Math 280** recognizing valid reasoning; recognizing valid reasoning written in symbols
PA-M-118	**Geometry**	**CC.2.3.HS.A.11** **Grade level:** E (9th-12th) **CCRS:** G.GPE.4	Apply coordinate geometry to prove simple geometric theorems algebraically.	Advanced Math 360, Properties of Lines and Segments Advanced Math 380, Determining the Equation of a Line *Not yet covered: slopes of parallel and perpendicular lines*	**Advanced Math 360** finding the midpoint of a line segment; determining the slope of a line **Advanced Math 380** writing an equation in slope-intercept form; writing an equation in point-slope form
PA-M-119	**Geometry**	**CC.2.3.HS.A.12** **Grade level:** E (9th-12th) **CCRS:** G.GMD.3	Explain volume formulas and use them to solve problems.	Advanced Math 240, Volume *Not yet covered: volume of pyramids, cones and spheres*	**Advanced Math 240** finding the volume of a rectangular solid (word problems); finding the volume of a cylinder (word problems)
PA-M-120	**Geometry**	**CC.2.3.HS.A.13** **Grade level:** E (9th-12th) **CCRS:** G.GMD.4	Analyze relationships between two-dimensional and three-dimensional objects.	Advanced Math 200, Geometric Forms and Concepts Advanced Math 240, Volume *Not yet covered: cross-sections and solids of revolution*	**Advanced Math 200** identifying three-dimensional figures; identifying plane figures **Advanced Math 240** finding the volume of composite figures; finding the volume of a rectangular solid
PA-M-121	**Geometry**	**CC.2.3.HS.A.14** **Grade level:** E (9th-12th) **CCRS:** G.MG.1	Apply geometric concepts to model and solve real world problems.	Advanced Math 230, Nonrectangular Perimeter and Area Advanced Math 240, Volume Advanced Math 260, Scale Drawings *Not yet covered: density in modeling situations*	**Advanced Math 230** solving 2 step area problems; solving composite area problems **Advanced Math 240** finding the volume of a rectangular solid (word problems); finding the volume of a cube (word problems) **Advanced Math 260** find actual areas given scale distances; convert scale to actual distance
PA-M-144	**Geometry**	**CC.2.3.HS.A.4** **Grade level:** E (9th-12th) **CCRS:** G.CO.12	Apply the concept of congruence to create geometric constructions.	Advanced Math 205, Protractors Advanced Math 272, Congruent and Similar Triangles *Not yet covered: compass-and-straightedge constructions*	**Advanced Math 205** identifying congruent angles; using a protractor to measure angles **Advanced Math 272** identifying congruent triangles; identifying rules showing congruency
PA-M-145	**Geometry**	**CC.2.3.HS.A.5** **Grade level:** E (9th-12th) **CCRS:** G.SRT.2	Create justifications based on transformations to establish similarity of plane figures.	Advanced Math 210, Geometric Characteristics Advanced Math 272, Congruent and Similar Triangles *Not yet covered: dilations as similarity transformations*	**Advanced Math 210** identifying reflections; finding the rotation of a shape **Advanced Math 272** identifying similar triangles when two angles are given; solving proportion problems

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PA-M-146	**Geometry**	**CC.2.3.HS.A.6** **Grade level:** E (9th-12th) **CCRS:** G.SRT.5	Verify and apply theorems involving similarity as they relate to plane figures.	Advanced Math 272, Congruent and Similar Triangles Advanced Math 280, Geometric Reasoning and Proof	**Advanced Math 272** identifying similar triangles when two angles are given; solving proportion problems **Advanced Math 280** recognizing valid reasoning; recognizing valid reasoning written in symbols
PA-M-147	**Geometry**	**CC.2.3.HS.A.7** **Grade level:** E (9th-12th) **CCRS:** G.SRT.8	Apply trigonometric ratios to solve problems involving right triangles.	Advanced Math 271, Right Triangles Advanced Math 510, Scientific Calculator	**Advanced Math 271** using Pythagorean Theorem to solve word problems; using Pythagorean Theorem to find the value of the hypotenuse in a right triangle **Advanced Math 510** finding the measurement of an angle given the cosine; finding the sine of an angle
PA-M-148	**Geometry**	**CC.2.3.HS.A.8** **Grade level:** E (9th-12th) **CCRS:** G.C.2	Apply geometric theorems to verify properties of circles.	Advanced Math 230, Nonrectangular Perimeter and Area Advanced Math 270, Angles and Special Triangles *Not yet covered: circle theorems: inscribed and central angles, chords, tangents*	**Advanced Math 230** computing the circumference of a circle; finding the area of a circle **Advanced Math 270** defining supplementary angles; defining complementary angles
PA-M-149	**Geometry**	**CC.2.3.HS.A.9** **Grade level:** E (9th-12th) **CCRS:** G.C.5	Extend the concept of similarity to determine arc lengths and areas of sectors of circles.	Advanced Math 230, Nonrectangular Perimeter and Area Basic Math 510, Interpreting Graphs *Not yet covered: arc length and sector area*	**Advanced Math 230** solving 2 step area problems; finding the area of a circle **Basic Math 510** reading and interpreting circle graphs (pie charts) (frames 40 - 49); reading and interpreting line graphs (frames 26 - 39)
PA-M-150	**Geometry**	**CC.2.3.HS.A.10** **Grade level:** E (9th-12th) **CCRS:** G.GPE.1	Translate between the geometric description and the equation for a conic section.	Advanced Math 360, Properties of Lines and Segments *Not yet covered: equations of circles and parabolas (conic sections)*	**Advanced Math 360** finding the distance between two points; finding the midpoint of a line segment

Measurement, Data, and Probability (37 items)

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PA-M-8	**Measurement, Data, and Probability**	**CC.2.4.K.A.1** **Grade level:** A (K-1st) **CCRS:** 2.MD.1	Describe and compare attributes of length, area, weight, and capacity of everyday objects.	Math At Your Own Pace 310, The Standard System of Measurement Basic Math 640, Measuring Distance	**Math At Your Own Pace 310** converting standard units of length (frames 1-20); converting standard units of weight (frames 25-29) **Basic Math 640** identifying applicable units of measure (frames 6 - 44); measuring a line with a customary ruler (frames 64 - 82)
PA-M-9	**Measurement, Data, and Probability**	**CC.2.4.K.A.4** **Grade level:** A (K-1st) **CCRS:** 2.MD.10	Classify objects and count the number of objects in each category.	Basic Math 510, Interpreting Graphs	**Basic Math 510** reading and interpreting line graphs (frames 26 - 39); reading and interpreting circle graphs (pie charts) (frames 40 - 49)
PA-M-17	**Measurement, Data, and Probability**	**CC.2.4.1.A.1** **Grade level:** A (K-1st) **CCRS:** 2.MD.3	Order lengths and measure them both indirectly and by repeating length units.	Basic Math 640, Measuring Distance	**Basic Math 640** identifying applicable units of measure (frames 6 - 44); solving word problems with measurement (frames 105 - 109)

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PA-M-18	**Measurement, Data, and Probability**	**CC.2.4.1.A.2** **Grade level:** A (K-1st) **CCRS:** 3.MD.1	Tell and write time to the nearest half hour using both analog and digital clocks.	Math At Your Own Pace 305, Problems Involving Time	**Math At Your Own Pace 305** working with clock time (frames 14-15, 20-37; 20-37); converting minutes to hours (frames 14-19)
PA-M-19	**Measurement, Data, and Probability**	**CC.2.4.1.A.4** **Grade level:** A (K-1st) **CCRS:** 2.MD.10	Represent and interpret data using tables/charts.	Basic Math 510, Interpreting Graphs *Not yet covered: tally charts and simple tables at a K-1 level*	**Basic Math 510** reading and interpreting circle graphs (pie charts) (frames 40 - 49); reading and interpreting line graphs (frames 26 - 39)
PA-M-28	**Measurement, Data, and Probability**	**CC.2.4.2.A.1** **Grade level:** B (2nd-3rd) **CCRS:** 2.MD.3	Measure and estimate lengths in standard units using appropriate tools.	Math At Your Own Pace 310, The Standard System of Measurement Basic Math 500, Estimation and Reasonable Answers	**Math At Your Own Pace 310** converting standard units of length (frames 1-20); converting standard units of volume (frames 21-24) **Basic Math 500** estimation by reasonable answer (frames 24 - 36); estimation by rounding (frames 12 - 23)
PA-M-29	**Measurement, Data, and Probability**	**CC.2.4.2.A.2** **Grade level:** B (2nd-3rd) **CCRS:** 3.MD.1	Tell and write time to the nearest five minutes using both analog and digital clocks.	Math At Your Own Pace 305, Problems Involving Time	**Math At Your Own Pace 305** working with clock time (frames 14-15, 20-37; 20-37); multiplying lengths of time (frames 5-8)
PA-M-30	**Measurement, Data, and Probability**	**CC.2.4.2.A.3** **Grade level:** B (2nd-3rd) **CCRS:** 2.MD.8	Solve problems and make change using coins and paper currency with appropriate symbols.	Basic Math 530, Determining Change Basic Math 550, Cash Purchases	**Basic Math 530** determining total cost and correct change (frames 32 - 37); determining bills and coins (frames 8 - 16, 23 - 31) **Basic Math 550** computing the sale price (frames 19 - 29, 39 - 43); computing total price given tax and discount (frames 39 - 52; 59 - 60)
PA-M-31	**Measurement, Data, and Probability**	**CC.2.4.2.A.4** **Grade level:** B (2nd-3rd) **CCRS:** 2.MD.10	Represent and interpret data using line plots, picture graphs, and bar graphs.	Basic Math 510, Interpreting Graphs	**Basic Math 510** reading and interpreting line graphs (frames 26 - 39); reading and interpreting circle graphs (pie charts) (frames 40 - 49)
PA-M-32	**Measurement, Data, and Probability**	**CC.2.4.2.A.6** **Grade level:** B (2nd-3rd) **CCRS:** 2.MD.6	Extend the concepts of addition and subtraction to problems involving length.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers Math At Your Own Pace 310, The Standard System of Measurement	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting single-digit numbers (frames 1-8); subtracting using borrowing (frames 14-17) **Math At Your Own Pace 310** converting standard units of length (frames 1-20); converting standard units of volume (frames 21-24)
PA-M-41	**Measurement, Data, and Probability**	**CC.2.4.3.A.1** **Grade level:** B (2nd-3rd) **CCRS:** 3.MD.2	Solve problems involving measurement and estimation of temperature, liquid volume, mass, and length.	Math At Your Own Pace 315, The Metric System of Measurement Math At Your Own Pace 310, The Standard System of Measurement Basic Math 650, Reading Scales and Gauges	**Math At Your Own Pace 315** converting metric units of length (frames 1-14); converting metric units of volume (frames 1-3, 15-20) **Math At Your Own Pace 310** converting standard units of length (frames 1-20); converting standard units of volume (frames 21-24) **Basic Math 650** reading a scale (frames 17 - 20); reading a protractor (frames 21 - 27)
PA-M-42	**Measurement, Data, and Probability**	**CC.2.4.3.A.2** **Grade level:** B (2nd-3rd) **CCRS:** 3.MD.1	Tell and write time to the nearest minute and solve problems by calculating time intervals.	Basic Math 630, Time Problems Math At Your Own Pace 305, Problems Involving Time	**Basic Math 630** determining elapsed time (frames 43 - 46, 53 - 59); determining starting time (frames 43 - 46, 60 - 67) **Math At Your Own Pace 305** converting minutes to hours (frames 14-19); working with clock time (frames 14-15, 20-37; 20-37)

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PA-M-43	**Measurement, Data, and Probability**	**CC.2.4.3.A.3** **Grade level:** B (2nd-3rd) **CCRS:** 2.MD.8	Solve problems and make change involving money using a combination of coins and bills.	Basic Math 530, Determining Change Basic Math 550, Cash Purchases	**Basic Math 530** determining bills and coins (frames 8 - 16, 23 - 31); determining total cost and correct change (frames 32 - 37) **Basic Math 550** computing the sale price (frames 19 - 29, 39 - 43); computing total price given tax and discount (frames 39 - 52; 59 - 60)
PA-M-44	**Measurement, Data, and Probability**	**CC.2.4.3.A.4** **Grade level:** B (2nd-3rd) **CCRS:** 3.MD.3	Represent and interpret data using tally charts, tables, pictographs, line plots, and bar graphs.	Basic Math 510, Interpreting Graphs Basic Math 520, Interpreting Tables and Charts	**Basic Math 510** reading and interpreting line graphs (frames 26 - 39); reading and interpreting circle graphs (pie charts) (frames 40 - 49) **Basic Math 520** using a mileage chart (frames 1-8); using a sales tax table (frames 9 - 13)
PA-M-45	**Measurement, Data, and Probability**	**CC.2.4.3.A.5** **Grade level:** B (2nd-3rd) **CCRS:** 3.MD.6	Determine the area of a rectangle and apply the concept to multiplication and to addition.	Advanced Math 220, Rectangular Perimeter and Area	**Advanced Math 220** using clue words to find area of a square or rectangle in word problems; finding the area of a rectangle
PA-M-46	**Measurement, Data, and Probability**	**CC.2.4.3.A.6** **Grade level:** B (2nd-3rd) **CCRS:** 3.MD.8	Solve problems involving perimeters of polygons and distinguish between linear and area measures.	Advanced Math 220, Rectangular Perimeter and Area Math At Your Own Pace 405, Perimeters	**Advanced Math 220** using clue words to find perimeter in word problems; using clue words to find area of a square or rectangle in word problems **Math At Your Own Pace 405** find the missing side of a polygon (frames 1-4, 29-31); perimeter of a polygon (frames 1-31; 1-4, 24-25)
PA-M-58	**Measurement, Data, and Probability**	**CC.2.4.4.A.1** **Grade level:** C (4th-5th) **CCRS:** 4.MD.2	Solve problems involving measurement and conversions from a larger unit to a smaller unit.	Basic Math 600, Customary Measurement Basic Math 610, Metric Measurement	**Basic Math 600** converting weights (tons/pounds) (frames 14 - 21, 32 - 43); converting capacities (liquid ounces/cups) (frames 14 - 21, 44 - 54) **Basic Math 610** converting km to m (frames 2 - 28); converting kiloliters to milliliters (frames 42 - 45, 49)
PA-M-59	**Measurement, Data, and Probability**	**CC.2.4.4.A.4** **Grade level:** C (4th-5th) **CCRS:** 4.MD.4	Represent and interpret data involving fractions using information provided in a line plot.	Basic Math 220, Adding Fractions Advanced Math 503, Descriptive Statistics	**Basic Math 220** adding three or more proper fractions with unlike denominators, horizontally (frames 1 - 11, 18 - 21); adding proper fractions with unlike denominators (frames 1 - 11) **Advanced Math 503** Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53); Interpreting data presented with a scatter plot; describing apparent correlation (frames 45-53)
PA-M-60	**Measurement, Data, and Probability**	**CC.2.4.4.A.6** **Grade level:** C (4th-5th) **CCRS:** 4.MD.7	Measure angles and use properties of adjacent angles to solve problems.	Advanced Math 270, Angles and Special Triangles Advanced Math 205, Protractors	**Advanced Math 270** finding unknown angle in a triangle when 2 angles are known; finding unknown angle in an isosceles triangle when vertex angle is known **Advanced Math 205** using a protractor to measure identified angles; using a protractor to measure angles
PA-M-69	**Measurement, Data, and Probability**	**CC.2.4.5.A.1** **Grade level:** C (4th-5th) **CCRS:** 5.MD.1	Solve problems using conversions within a given measurement system.	Basic Math 600, Customary Measurement Basic Math 610, Metric Measurement	**Basic Math 600** converting length (yards/feet) (frames 2 - 31); converting length (inches/feet) (frames 2 - 31) **Basic Math 610** converting km to m (frames 2 - 28); converting kiloliters to milliliters (frames 42 - 45, 49)

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PA-M-70	**Measurement, Data, and Probability**	**CC.2.4.5.A.4** **Grade level:** C (4th-5th) **CCRS:** 5.MD.2	Solve problems involving computation of fractions using information provided in a line plot.	Basic Math 260, Applications Using Fractions Advanced Math 503, Descriptive Statistics	**Basic Math 260** solving word problems by subtraction (frames 11 - 19); solving word problems by addition (frames 4 - 10) **Advanced Math 503** Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53); Computing or correctly identifying the range, mean, median or mode of a set of data (frames 1-25)
PA-M-71	**Measurement, Data, and Probability**	**CC.2.4.5.A.5** **Grade level:** C (4th-5th) **CCRS:** 5.MD.3	Apply concepts of volume to solve problems and relate volume to multiplication and to addition.	Advanced Math 240, Volume	**Advanced Math 240** finding the volume of a cube (word problems); finding the volume of a cube
PA-M-134	**Measurement, Data, and Probability**	**CC.2.4.4.A.2** **Grade level:** C (4th-5th) **CCRS:** 4.MD.4	Translate information from one type of data display to another.	Basic Math 450, Data Collection and Analysis Basic Math 510, Interpreting Graphs Basic Math 520, Interpreting Tables and Charts	**Basic Math 450** interpreting a bar graph (frames 41); describing a trend as shown on a graph (frames 7 - 10) **Basic Math 510** knowing the characteristics of data graphs (frames 1-3); reading and interpreting line graphs (frames 26 - 39) **Basic Math 520** using a mileage chart (frames 1-8); using a pricing table (frames 36 - 37)
PA-M-135	**Measurement, Data, and Probability**	**CC.2.4.5.A.2** **Grade level:** C (4th-5th) **CCRS:** 5.MD.2	Represent and interpret data using appropriate scale.	Basic Math 510, Interpreting Graphs Basic Math 520, Interpreting Tables and Charts Advanced Math 503, Descriptive Statistics	**Basic Math 510** reading and interpreting line graphs (frames 26 - 39); reading and interpreting circle graphs (pie charts) (frames 40 - 49) **Basic Math 520** using a mileage chart (frames 1-8); using a pricing table (frames 36 - 37) **Advanced Math 503** Interpreting data presented in graphs or tables (frames 26-44); Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53)
PA-M-122	**Measurement, Data, and Probability**	**CC.2.4.6.B.1** **Grade level:** D (6th-8th) **CCRS:** 6.SP.5	Demonstrate an understanding of statistical variability by displaying, analyzing, and summarizing distributions.	Basic Math 440, Statistics Advanced Math 503, Descriptive Statistics *Not yet covered: measures of spread: interquartile range, mean absolute deviation*	**Basic Math 440** finding the median (frames 28 - 41); finding the mean (frames 13 - 21) **Advanced Math 503** Computing or correctly identifying the range, mean, median or mode of a set of data (frames 1-25); Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53)
PA-M-123	**Measurement, Data, and Probability**	**CC.2.4.7.B.1** **Grade level:** D (6th-8th) **CCRS:** 7.SP.2	Draw inferences about populations based on random sampling concepts.	Basic Math 450, Data Collection and Analysis Basic Math 410, Ratio and Proportion	**Basic Math 450** defining a random sample (frames 8 - 18); defining a population (frames 8 - 18) **Basic Math 410** solving a ratio (frames 27 - 34); writing a ratio (frames 1 - 18)
PA-M-124	**Measurement, Data, and Probability**	**CC.2.4.7.B.2** **Grade level:** D (6th-8th) **CCRS:** 7.SP.4	Draw informal comparative inferences about two populations.	Advanced Math 503, Descriptive Statistics Basic Math 440, Statistics	**Advanced Math 503** Computing or correctly identifying the range, mean, median or mode of a set of data (frames 1-25); Interpreting data presented in graphs or tables (frames 26-44) **Basic Math 440** finding the mean (frames 13 - 21); finding the median (frames 28 - 41)

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PA-M-125	**Measurement, Data, and Probability**	**CC.2.4.7.B.3** **Grade level:** D (6th-8th) **CCRS:** 7.SP.7	Investigate chance processes and develop, use, and evaluate probability models.	Basic Math 420, Probability I Basic Math 430, Probability II	**Basic Math 420** computing simple probabilities in real- world word problems (frames 20 - 46) **Basic Math 430** calculating probability of a compound event – and problem (frames 23 - 35; 7 - 10); calculating probability of a compound event – or problem (frames 23 - 27, 36 - 46)
PA-M-126	**Measurement, Data, and Probability**	**CC.2.4.8.B.1** **Grade level:** D (6th-8th) **CCRS:** 8.SP.1	Analyze and/or interpret bivariate data displayed in multiple representations.	Advanced Math 503, Descriptive Statistics	**Advanced Math 503** Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53); Interpreting data presented with a scatter plot; describing apparent correlation (frames 45-53)
PA-M-127	**Measurement, Data, and Probability**	**CC.2.4.8.B.2** **Grade level:** D (6th-8th) **CCRS:** 8.SP.4	Understand that patterns of association can be seen in bivariate data utilizing frequencies.	Advanced Math 503, Descriptive Statistics	**Advanced Math 503** Interpreting data presented in graphs or tables (frames 26-44); Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53)
PA-M-128	**Measurement, Data, and Probability**	**CC.2.4.HS.B.1** **Grade level:** E (9th-12th) **CCRS:** S.ID.1	Summarize, represent, and interpret data on a single count or measurement variable.	Basic Math 440, Statistics Basic Math 510, Interpreting Graphs Advanced Math 503, Descriptive Statistics *Not yet covered: box plots and quartiles*	**Basic Math 440** finding the median (frames 28 - 41); finding the mean (frames 13 - 21) **Basic Math 510** reading and interpreting line graphs (frames 26 - 39); reading and interpreting circle graphs (pie charts) (frames 40 - 49) **Advanced Math 503** Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53); Interpreting data presented with a scatter plot; describing apparent correlation (frames 45-53)
PA-M-129	**Measurement, Data, and Probability**	**CC.2.4.HS.B.2** **Grade level:** E (9th-12th) **CCRS:** S.ID.5	Summarize, represent, and interpret data on two categorical and quantitative variables.	Basic Math 430, Probability II Basic Math 520, Interpreting Tables and Charts Advanced Math 500, Sets Advanced Math 503, Descriptive Statistics *Not yet covered: two-way frequency tables: joint, marginal and conditional relative frequency*	**Basic Math 430** calculating probability of a compound event – and problem (frames 23 - 35; 7 - 10); calculating probability of a compound event – or problem (frames 23 - 27, 36 - 46) **Basic Math 520** using a sales tax table (frames 9 - 13); using a shipping charges table (frames 14 - 21) **Advanced Math 500** interpreting a Venn diagram; recognizing elements of sets **Advanced Math 503** Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53); Interpreting data presented with a scatter plot; describing apparent correlation (frames 45-53)
PA-M-130	**Measurement, Data, and Probability**	**CC.2.4.HS.B.3** **Grade level:** E (9th-12th) **CCRS:** S.ID.7	Analyze linear models to make interpretations based on the data.	Advanced Math 370, Graphs of Linear Equations Advanced Math 380, Determining the Equation of a Line Advanced Math 503, Descriptive Statistics	**Advanced Math 370** finding the slope and y-intercept of a line; graphing linear equations from slope and y-intercept **Advanced Math 380** writing linear equations, given slope and y-intercept; writing an equation in slope-intercept form **Advanced Math 503** Interpreting data presented with a scatter plot; identifying the line of best fit (frames 45-53); Interpreting data presented in graphs or tables (frames 26-44)

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PA-M-131	**Measurement, Data, and Probability**	**CC.2.4.HS.B.5** **Grade level:** E (9th-12th) **CCRS:** S.IC.3	Make inferences and justify conclusions based on sample surveys, experiments, and observational studies.	Basic Math 450, Data Collection and Analysis Science 210, Scientific Inquiry Science 211, Investigations and Experiments *Not yet covered: justifying conclusions from surveys and observational studies (margin of error)*	**Basic Math 450** defining a treatment group (frames 8 - 18); identifying the control group in an experiment (frames 8 - 18) **Science 210** Understanding the results of an experiment (frames 12 – 35); Understanding how to make a prediction (frames 7 – 10) **Science 211** Knowing how to make predictions (frames 21 – 29); Knowing what bias is (frames 67 – 85)
PA-M-132	**Measurement, Data, and Probability**	**CC.2.4.HS.B.6** **Grade level:** E (9th-12th) **CCRS:** S.CP.4	Use the concepts of independence and conditional probability to interpret data.	Basic Math 430, Probability II Basic Math 520, Interpreting Tables and Charts Advanced Math 500, Sets *Not yet covered: conditional probability and independence from two-way tables*	**Basic Math 430** calculating probability of a compound event – and problem (frames 23 - 35; 7 - 10); calculating probability of a compound event – or problem (frames 23 - 27, 36 - 46) **Basic Math 520** using a mileage chart (frames 1-8); using a sales tax table (frames 9 - 13) **Advanced Math 500** interpreting a Venn diagram; recognizing elements of sets
PA-M-133	**Measurement, Data, and Probability**	**CC.2.4.HS.B.7** **Grade level:** E (9th-12th) **CCRS:** S.CP.7	Apply the rules of probability to compute probabilities of compound events in a uniform probability model.	Basic Math 420, Probability I Basic Math 430, Probability II Advanced Math 500, Sets	**Basic Math 420** computing simple probabilities in real- world word problems (frames 20 - 46) **Basic Math 430** calculating probability of a compound event – and problem (frames 23 - 35; 7 - 10); calculating probability of a compound event – or problem (frames 23 - 27, 36 - 46) **Advanced Math 500** finding the intersection of two sets; finding the union of two sets
PA-M-151	**Measurement, Data, and Probability**	**CC.2.4.HS.B.4** **Grade level:** E (9th-12th) **CCRS:** S.IC.1	Recognize and evaluate random processes underlying statistical experiments.	Basic Math 450, Data Collection and Analysis Basic Math 430, Probability II *Not yet covered: simulation and evaluating a statistical model*	**Basic Math 450** defining a random sample (frames 8 - 18); defining experiment (frames 1-8) **Basic Math 430** calculating probability of a compound event – and problem (frames 23 - 35; 7 - 10); calculating probability of a compound event – or problem (frames 23 - 27, 36 - 46)

Numbers and Operations (37 items)

ID	PA Core Domain	Standard ID & CCRS	Descriptor	Pace Prescription	Pace Mastery Check
PA-M-1	**Numbers and Operations**	**CC.2.1.K.A.1** **Grade level:** A (K-1st) **CCRS:** K.CC.1	Know number names and write and recite the count sequence.	Math At Your Own Pace 100, Introducing Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19)
PA-M-2	**Numbers and Operations**	**CC.2.1.K.A.2** **Grade level:** A (K-1st) **CCRS:** K.CC.4	Apply one-to-one correspondence to count the number of objects.	Math At Your Own Pace 100, Introducing Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19)
PA-M-3	**Numbers and Operations**	**CC.2.1.K.A.3** **Grade level:** A (K-1st) **CCRS:** 2.NBT.4	Apply the concept of magnitude to compare numbers and quantities.	Math At Your Own Pace 100, Introducing Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19)

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PA-M-4	**Numbers and Operations**	**CC.2.1.K.B.1** **Grade level:** A (K-1st) **CCRS:** 2.NBT.1	Use place value to compose and decompose numbers within 19.	Math At Your Own Pace 100, Introducing Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19)
PA-M-10	**Numbers and Operations**	**CC.2.1.1.B.1** **Grade level:** A (K-1st) **CCRS:** 1.NBT.1	Extend the counting sequence to read and write numerals to represent objects.	Math At Your Own Pace 100, Introducing Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19)
PA-M-11	**Numbers and Operations**	**CC.2.1.1.B.2** **Grade level:** A (K-1st) **CCRS:** 2.NBT.4	Use place-value concepts to represent amounts of tens and ones and to compare two digit numbers.	Math At Your Own Pace 100, Introducing Whole Numbers Math At Your Own Pace 105, Adding Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19) **Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23)
PA-M-12	**Numbers and Operations**	**CC.2.1.1.B.3** **Grade level:** A (K-1st) **CCRS:** 2.NBT.7	Use place-value concepts and properties of operations to add and subtract within 100.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting single-digit numbers (frames 1-8); subtracting two or more digits (frames 9-13)
PA-M-20	**Numbers and Operations**	**CC.2.1.2.B.1** **Grade level:** B (2nd-3rd) **CCRS:** 2.NBT.4	Use place-value concepts to represent amounts of tens and ones and to compare three digit numbers.	Math At Your Own Pace 100, Introducing Whole Numbers	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19)
PA-M-21	**Numbers and Operations**	**CC.2.1.2.B.2** **Grade level:** B (2nd-3rd) **CCRS:** 2.NBT.2	Use place-value concepts to read, write, and skip count to 1000.	Math At Your Own Pace 100, Introducing Whole Numbers Basic Math 450, Data Collection and Analysis	**Math At Your Own Pace 100** ordinal numbers (frames 47-53); converting words to numbers (frames 20-33; 34-46; 9-19) **Basic Math 450** identifying the control group in an experiment (frames 8 - 18); defining a random sample (frames 8 - 18)
PA-M-22	**Numbers and Operations**	**CC.2.1.2.B.3** **Grade level:** B (2nd-3rd) **CCRS:** 2.NBT.7	Use place-value understanding and properties of operations to add and subtract within 1000.	Math At Your Own Pace 105, Adding Whole Numbers Math At Your Own Pace 110, Subtracting Whole Numbers	**Math At Your Own Pace 105** adding two-digit numbers with carrying (frames 24-33); adding two-digit numbers (frames 16-23) **Math At Your Own Pace 110** subtracting single-digit numbers (frames 1-8); subtracting two or more digits (frames 9-13)
PA-M-33	**Numbers and Operations**	**CC.2.1.3.B.1** **Grade level:** B (2nd-3rd) **CCRS:** 3.NBT.1	Apply place-value understanding and properties of operations to perform multi-digit arithmetic.	Basic Math 120, Rounding Numbers Basic Math 140, Adding Whole and Decimal Numbers Basic Math 150, Subtracting Whole and Decimal Numbers	**Basic Math 120** rounding decimals to the nearest whole number (frames 65 - 78); rounding decimals to the nearest hundredth (frames 88 - 93) **Basic Math 140** adding multi-digit whole numbers listed horizontally (frames 1 - 10; 31 - 37); adding single-digit whole numbers listed horizontally (frames 1 - 10) **Basic Math 150** subtracting whole numbers, borrowing (frames 1 - 37; 42 - 66; 46 - 51); subtracting decimal numbers, borrowing (frames 67 - 82; 67 - 94)
PA-M-34	**Numbers and Operations**	**CC.2.1.3.C.1** **Grade level:** B (2nd-3rd) **CCRS:** 3.NF.3	Explore and develop an understanding of fractions as numbers.	Math At Your Own Pace 200, Introducing Fractions	**Math At Your Own Pace 200** fractions, numerators, denominators (frames 1-14); proper fractions, numerators (frames 9-14, 19-22, 36-37)

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PA-M-47	**Numbers and Operations**	**CC.2.1.4.B.1** **Grade level:** C (4th-5th) **CCRS:** 4.NBT.1	Apply place-value concepts to show an understanding of multi-digit whole numbers.	Basic Math 100, Introducing Whole Numbers Basic Math 120, Rounding Numbers	**Basic Math 100** naming place value of a number digit (frames 22 - 28); identifying the digit of a given place value (frames 22 - 28) **Basic Math 120** rounding decimals to the nearest whole number (frames 65 - 78); rounding decimals to the nearest hundredth (frames 88 - 93)
PA-M-48	**Numbers and Operations**	**CC.2.1.4.B.2** **Grade level:** C (4th-5th) **CCRS:** 4.NBT.4	Use place-value understanding and properties of operations to perform multi-digit arithmetic.	Basic Math 140, Adding Whole and Decimal Numbers Basic Math 150, Subtracting Whole and Decimal Numbers Basic Math 160, Multiplying Whole and Decimal Numbers	**Basic Math 140** adding multi-digit whole numbers listed horizontally (frames 1 - 10; 31 - 37); adding single-digit whole numbers listed horizontally (frames 1 - 10) **Basic Math 150** subtracting whole numbers, borrowing (frames 1 - 37; 42 - 66; 46 - 51); subtracting decimal numbers, borrowing (frames 67 - 82; 67 - 94) **Basic Math 160** multiplying with three-digit multiplier (frames 86 - 91); multiplying single-digit numbers (frames 14 - 15)
PA-M-49	**Numbers and Operations**	**CC.2.1.4.C.1** **Grade level:** C (4th-5th) **CCRS:** 4.NF.1	Extend the understanding of fractions to show equivalence and ordering.	Basic Math 200, Introducing Fractions Basic Math 210, Comparing Fractions	**Basic Math 200** identifying fractions equal to 1 (frames 17 - 18); identifying an improper fraction (frames 41 - 42) **Basic Math 210** comparing fractions with different numerators and different denominators (frames 15 - 20); ordering three fractions with different numerators and different denominators (frames 21 - 29)
PA-M-50	**Numbers and Operations**	**CC.2.1.4.C.2** **Grade level:** C (4th-5th) **CCRS:** 4.NF.3	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	Basic Math 200, Introducing Fractions Basic Math 220, Adding Fractions Basic Math 260, Applications Using Fractions	**Basic Math 200** changing mixed numbers to improper fractions (frames 41 - 52); reducing proper fractions (frames 32 - 36; 32 -36) **Basic Math 220** adding mixed numbers with proper fractions and like denominators (frames 23 - 25); adding proper fractions with like denominators, horizontally (frames 1 - 11) **Basic Math 260** solving word problems by subtraction (frames 11 - 19); solving word problems by addition (frames 4 - 10)
PA-M-51	**Numbers and Operations**	**CC.2.1.4.C.3** **Grade level:** C (4th-5th) **CCRS:** 4.NF.6	Connect decimal notation to fractions, and compare decimal fractions (base 10 denominator, e.g., 19/100).	Basic Math 300, Fraction and Decimal Equivalency Basic Math 130, Comparing Decimals	**Basic Math 300** converting fractions to decimals (frames 25 - 36); converting decimals to fractions (frames 5 - 24) **Basic Math 130** comparing different number of decimal places (frames 14 - 19, 47 - 50); comparing same number of decimal places (frames 1 - 12)
PA-M-61	**Numbers and Operations**	**CC.2.1.5.B.1** **Grade level:** C (4th-5th) **CCRS:** 5.NBT.2	Apply place-value concepts to show an understanding of operations and rounding as they pertain to whole numbers and decimals.	Basic Math 120, Rounding Numbers Basic Math 110, Introducing Decimals	**Basic Math 120** rounding decimals to the nearest whole number (frames 65 - 78); rounding decimals to the nearest hundredth (frames 88 - 93) **Basic Math 110** naming decimal place value (frames 8 - 19); meaning of decimal numbers (frames 10 - 15)

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PA-M-62	**Numbers and Operations**	**CC.2.1.5.B.2** **Grade level:** C (4th-5th) **CCRS:** 5.NBT.7	Extend an understanding of operations with whole numbers to perform operations including decimals.	Basic Math 140, Adding Whole and Decimal Numbers Basic Math 150, Subtracting Whole and Decimal Numbers Basic Math 160, Multiplying Whole and Decimal Numbers Basic Math 180, Dividing Decimal Numbers	**Basic Math 140** adding single-digit whole numbers listed horizontally (frames 1 - 10); adding whole and decimal numbers listed horizontally (frames 17 - 18; 61 - 68) **Basic Math 150** subtracting whole numbers and decimal numbers in horizontal format, borrowing (frames 67 - 94); subtracting whole numbers, borrowing (frames 1 - 37; 42 - 66; 46 - 51) **Basic Math 160** multiplying decimal number by whole number (frames 92 - 98); multiplying decimal numbers (frames 92 - 98) **Basic Math 180** dividing decimal number using whole number divisor; dividing a decimal number using decimal divisor
PA-M-63	**Numbers and Operations**	**CC.2.1.5.C.1** **Grade level:** C (4th-5th) **CCRS:** 5.NF.2	Use the understanding of equivalency to add and subtract fractions.	Basic Math 220, Adding Fractions Basic Math 230, Subtracting Fractions	**Basic Math 220** adding mixed numbers with proper fractions and like denominators (frames 23 - 25); adding proper fractions with like denominators, horizontally (frames 1 - 11) **Basic Math 230** subtracting proper fractions with like denominators and reducing (frames 1-7); subtracting proper fractions with unlike denominators (frames 8 - 15)
PA-M-64	**Numbers and Operations**	**CC.2.1.5.C.2** **Grade level:** C (4th-5th) **CCRS:** 5.NF.4	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.	Basic Math 240, Multiplying Fractions Basic Math 250, Dividing Fractions Basic Math 260, Applications Using Fractions	**Basic Math 240** multiplying proper fractions (frames 1 - 2, 9); multiplying mixed numbers and proper fractions (frames 3-5; 6 - 10) **Basic Math 250** in a word problem (frames 15 - 18); dividing fractions by whole numbers (frames 10 - 11) **Basic Math 260** solving word problems by multiplication (frames 20 - 27); solving word problems by subtraction (frames 11 - 19)
PA-M-72	**Numbers and Operations**	**CC.2.1.6.D.1** **Grade level:** D (6th-8th) **CCRS:** 6.RP.3	Understand ratio concepts and use ratio reasoning to solve problems.	Basic Math 410, Ratio and Proportion Basic Math 580, Distance, Rate, and Time Problems	**Basic Math 410** setting up and solving a ratio word problem (frames 20 - 38); solving a ratio (frames 27 - 34) **Basic Math 580** finding the speed using time and distance traveled (frames 1 – 12, 18 - 27); finding miles per gallon (frames 45 - 54)
PA-M-73	**Numbers and Operations**	**CC.2.1.6.E.1** **Grade level:** D (6th-8th) **CCRS:** 6.NS.1	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	Basic Math 250, Dividing Fractions	**Basic Math 250** dividing fractions by whole numbers (frames 10 - 11); dividing proper fractions (frames 1-7)
PA-M-74	**Numbers and Operations**	**CC.2.1.6.E.2** **Grade level:** D (6th-8th) **CCRS:** 6.NS.2	Identify and choose appropriate processes to compute fluently with multi-digit numbers.	Basic Math 160, Multiplying Whole and Decimal Numbers Basic Math 170, Dividing Whole Numbers Basic Math 180, Dividing Decimal Numbers	**Basic Math 160** multiplying single-digit numbers (frames 14 - 15); multiplying with single-digit multiplier and two-digit multiplicand (frames 17 - 20) **Basic Math 170** dividing multi-digit dividend by single-digit divisor (frames 41 - 54); dividing multi-digit dividend by single-digit divisor in horizontal format (frames 41 - 54) **Basic Math 180** dividing decimal number using whole number divisor; dividing a decimal number using decimal divisor

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PA-M-75	**Numbers and Operations**	**CC.2.1.6.E.3** **Grade level:** D (6th-8th) **CCRS:** 6.NS.4	Develop and/or apply number theory concepts to find common factors and multiples.	Basic Math 200, Introducing Fractions Basic Math 220, Adding Fractions Advanced Math 130, Exponents *Not yet covered: least common multiple named as such*	**Basic Math 200** finding the greatest common factor (frames 31 -32); finding common factors (frames 24 - 31) **Basic Math 220** adding mixed numbers with common denominators (frames 22 - 32); adding mixed numbers with unlike denominators, horizontally (frames 22 - 32) **Advanced Math 130** multiplying numbers with exponents; simplifying a number with a multiplication problem as its base
PA-M-76	**Numbers and Operations**	**CC.2.1.6.E.4** **Grade level:** D (6th-8th) **CCRS:** 6.NS.5	Apply and extend previous understandings of numbers to the system of rational numbers.	Advanced Math 100, Positive and Negative Numbers Advanced Math 120, Adding and Subtracting Rational Numbers	**Advanced Math 100** determining the opposite of a negative number; comparing one negative and one positive number **Advanced Math 120** subtracting one negative and one positive number; adding one negative and one positive number
PA-M-77	**Numbers and Operations**	**CC.2.1.7.D.1** **Grade level:** D (6th-8th) **CCRS:** 7.RP.1	Analyze proportional relationships and use them to model and solve real-world and mathematical problems.	Basic Math 410, Ratio and Proportion Advanced Math 333, Variation	**Basic Math 410** setting up and solving a ratio word problem (frames 20 - 38); solving a ratio (frames 27 - 34) **Advanced Math 333** Word problems with proportional relationships (frames 6-8); Solving proportional relationships for x (frames 1-5)
PA-M-78	**Numbers and Operations**	**CC.2.1.7.E.1** **Grade level:** D (6th-8th) **CCRS:** 7.NS.1	Apply and extend previous understandings of operations with fractions to operations with rational numbers.	Advanced Math 120, Adding and Subtracting Rational Numbers Advanced Math 110, Multiplying and Dividing Rational Numbers	**Advanced Math 120** subtracting one negative and one positive number; subtracting two negative numbers **Advanced Math 110** multiplying rational numbers; dividing rational numbers
PA-M-79	**Numbers and Operations**	**CC.2.1.8.E.1** **Grade level:** D (6th-8th) **CCRS:** 8.NS.2	Distinguish between rational and irrational numbers using their properties.	Advanced Math 100, Positive and Negative Numbers Advanced Math 140, Roots *Not yet covered: classifying numbers as rational or irrational*	**Advanced Math 100** identifying number types; ordering rational numbers **Advanced Math 140** recognizing properties of radicals; simplifying radicals
PA-M-80	**Numbers and Operations**	**CC.2.1.8.E.4** **Grade level:** D (6th-8th) **CCRS:** 8.NS.2	Estimate irrational numbers by comparing them to rational numbers.	Advanced Math 100, Positive and Negative Numbers Advanced Math 140, Roots *Not yet covered: approximating a square root between two whole numbers*	**Advanced Math 100** comparing two negative numbers; identifying number types **Advanced Math 140** simplifying radicals; solving radicals with a calculator
PA-M-81	**Numbers and Operations**	**CC.2.1.HS.F.1** **Grade level:** E (9th-12th) **CCRS:** N.RN.1	Apply and extend the properties of exponents to solve problems with rational exponents.	Advanced Math 130, Exponents Advanced Math 140, Roots Advanced Math 160, Operations with Variables *Not yet covered: rational exponents and converting between radical and exponent form*	**Advanced Math 130** writing multiplication problems as exponents; solving exponents **Advanced Math 140** recognizing properties of radicals; simplifying radicals **Advanced Math 160** simplifying fractions with variables; adding fractions with variables

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PA-M-82	**Numbers and Operations**	**CC.2.1.HS.F.2** **Grade level:** E (9th-12th) **CCRS:** N.RN.3	Apply properties of rational and irrational numbers to solve real-world or mathematical problems.	Advanced Math 100, Positive and Negative Numbers Advanced Math 140, Roots *Not yet covered: sums and products of rational and irrational numbers*	**Advanced Math 100** ordering rational numbers; comparing two negative numbers **Advanced Math 140** recognizing properties of radicals; products of radicals
PA-M-83	**Numbers and Operations**	**CC.2.1.HS.F.3** **Grade level:** E (9th-12th) **CCRS:** N.Q.1	Apply quantitative reasoning to choose and interpret units and scales in formulas, graphs, and data displays.	Basic Math 510, Interpreting Graphs Basic Math 620, Working With Measurements Advanced Math 370, Graphs of Linear Equations	**Basic Math 510** reading and interpreting line graphs (frames 26 - 39); reading and interpreting circle graphs (pie charts) (frames 40 - 49) **Basic Math 620** multiplying length measurements to square units (frames 21 - 28); dividing measurements in a word problem (frames 44 - 50) **Advanced Math 370** graphing linear equations by plotting points; graphing horizontal and vertical lines
PA-M-84	**Numbers and Operations**	**CC.2.1.HS.F.4** **Grade level:** E (9th-12th) **CCRS:** N.Q.1	Use units as a way to understand problems and to guide the solution of multi-step problems.	Basic Math 580, Distance, Rate, and Time Problems Basic Math 600, Customary Measurement Basic Math 620, Working With Measurements	**Basic Math 580** finding miles per gallon (frames 45 - 54); finding the speed using time and distance traveled (frames 1 – 12, 18 - 27) **Basic Math 600** converting length (inches/feet) (frames 2 - 31); converting length (yards/feet) (frames 2 - 31) **Basic Math 620** multiplying length measurements to square units (frames 21 - 28); multiplying measurements in a word problem (frames 39 - 43)
PA-M-85	**Numbers and Operations**	**CC.2.1.HS.F.5** **Grade level:** E (9th-12th) **CCRS:** N.Q.3	Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	Basic Math 120, Rounding Numbers Basic Math 640, Measuring Distance Basic Math 650, Reading Scales and Gauges Advanced Math 250, Geometric Estimation *Not yet covered: whether a measurement's precision supports a conclusion*	**Basic Math 120** rounding decimals to the nearest whole number (frames 65 - 78); rounding decimals to the nearest hundredth (frames 88 - 93) **Basic Math 640** identifying applicable units of measure (frames 6 - 44); solving word problems with measurement (frames 105 - 109) **Basic Math 650** reading a protractor (frames 21 - 27); determining appropriate units of measure (frames 17 - 20) **Advanced Math 250** estimating the area of composite figures; estimating area by rounding
PA-M-136	**Numbers and Operations**	**CC.2.1.HS.F.6** **Grade level:** E (9th-12th) **CCRS:** N.CN.2	Extend the knowledge of arithmetic operations and apply to complex numbers.	*Prescription in Development* *Not yet covered: complex numbers*	
PA-M-137	**Numbers and Operations**	**CC.2.1.HS.F.7** **Grade level:** E (9th-12th) **CCRS:** N.CN.7	Apply concepts of complex numbers in polynomial identities and quadratic equations to solve problems.	Advanced Math 440, Solving Quadratic Equations *Not yet covered: quadratic equations with complex solutions*	**Advanced Math 440** factoring (two positive solutions); quadratic formula