

## High School

Strand	Concept	Activity Object	Type
Algebra	Quadratics	Introducing the Quadratic Function and Its Graph A Quadratic Function Given in General and Vertex Form Roots and Coefficients of a Quadratic Equation Visualizing the Parabola Graphing a Quadratic Function: Vertex Form Graphing a Quadratic Function: Intercept Form Graphing a Quadratic Function: General Form Finding the Equation of a Parabola The Range of a Quadratic Function How Two Parabolas Intersect Solving Quadratic Inequalities by Graphing Quadratics with Parameters	Concept Development Procedure Utilization Interactive Exercise Guided Discovery Procedure Utilization Procedure Utilization Procedure Utilization Procedure Utilization Guided Discovery Guided Discovery Guided Discovery Interactive Exercise
	Polynomials	Characteristics of Polynomials Polynomial Long Division Polynomial Synthetic Division Remainder Theorem	Concept Development Concept Development Procedure Utilization Interactive Exercise
	Trigonometry	The Angle, and Angles in Standard Position Trigonometric Ratios in the Right Triangles Trigonometric Ratios on the Unit Circle Trigonometric Ratios of Special Angles Degree and Radian Arc Length in a Circle Area of a Sector Co-Terminal Angles The Reference Angle Finding the Period of a Trigonometric Function Graphing Sine Function Graphing Cosine Function Graphing Tangent Functions Graphing Cotangent Functions	Concept Development Concept Development Concept Development Procedure Utilization Procedure Utilization Concept Development Procedure Utilization Procedure Utilization Concept Development Concept Development Concept Development Procedure Utilization Procedure Utilization Procedure Utilization Procedure Utilization
Data Analysis and Probability	Counting Principles	Factorial Notation Fundamental Counting Principles Counting Principles: Digits Circular Permutation Problems Permutations and Their Properties Permutations with Repetition Combinations and Their Properties Problems Involving the Number of Subsets of a Set Counting Problems: Number of Parallelograms	Concept Development Concept Development Interactive Exercise Concept Development Concept Development Concept Development Concept Development Interactive Exercise Problem Solving
	Probability	The Concept of Probability Experimental and Theoretical Probabilities Probability Using Tree Diagrams Analyze Experimental Probability Using Graphs Playing with Probability Find the Given Probability Overlapping and Mutually Exclusive Events	Concept Development Concept Development Concept Development Concept Development Concept Development Interactive Exercise Concept Development

The Adaptive Curriculum digital solution helps every student succeed, by fostering the confidence and deep understanding that drive student improvement.

## Middle School

Strand	Concept	Activity Object	Type
Number and Operations	Whole Numbers and Integers	Round Whole Numbers Puzzle It! Number Relationships on Operation Subtraction of Integers Addition of Integers Special Numbers Prime Factorization Finding Least Common Multiples Greatest Common Factor of Numbers	Concept Development Interactive Exercise Concept Development Concept Development Concept Development Procedure Utilization Concept Development Concept Development
	Rational Numbers and Real Numbers	Compare and Order Proper Fractions Compare and Order Mixed Numbers Adding and Subtracting Fractions and Mixed Numbers Multiplication of Fractions Division of Fractions Equivalent Fractions Decimal Representations Compare and Order Decimals with Races Factorization of Decimals Using a Model Rounding Decimals Puzzle It! Operations on Numbers in Scientific Notation Solving Problems Using Money Park Planning Using Rational Numbers Solving Problems Using Proportions Problem Solving Involving Ratio and Proportion Scale Drawing Using a Percent Model Use Percent Proportion to Solve Problems Simple Interest Percentage of Mixtures Estimating the Square Root of Non-Perfect Integers	Concept Development Concept Development Interactive Exercise Visual Proof Visual Proof Interactive Exercise Concept Development Concept Development Concept Development Concept Development Interactive Exercise Interactive Exercise Interactive Exercise Concept Development Interactive Exercise Interactive Exercise Concept Development Interactive Exercise Interactive Exercise Concept Development Interactive Exercise Interactive Exercise
Algebra	Patterns	Problem Solving Involving Gauss' Patterns The General Rule for Input/Output Tables	Problem Solving Interactive Exercise
	Equation, Equality, Inequality, Function and Graphs	Different Forms of Representation for a Relationship Translating Problems Into One-Step Equations Solving One-Step Linear Equations Solving Two-Step Linear Equations Graphing Linear Inequalities in One Variable Solving One-Step Linear Inequalities Slope of a Line Graphs of One-Step Linear Equations Graphs of Two-Step Linear Equations Find the Equations of Linear Graphs Graphing Linear Inequalities in Two Variables	Concept Development Concept Development Procedure Utilization Procedure Utilization Guided Discovery Procedure Utilization Interactive Exercise Interactive Exercise Interactive Exercise Interactive Exercise Interactive Exercise Interactive Exercise Interactive Exercise Procedure Utilization

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<b>Algebra</b>	<b>Algebraic Expressions</b>	Factoring Algebraic Expressions Evaluation of Algebraic Expressions	Concept Development Interactive Exercise
<b>Geometry</b>	<b>Basic Concepts in Geometry</b>	Basic Elements of Geometry Points, Lines, Planes and Their Relationships Angles and Types of Angles	Interactive Exercise Interactive Exercise Dynamic Modeling
	<b>Transformational Geometry</b>	Application of Translation Drawing the Reflection of a Figure Symmetry of a Figure	Interactive Exercise Interactive Exercise Interactive Exercise
	<b>Triangles</b>	Interior and Exterior Angles of a Triangle Types of Triangles Let's Find Congruent Triangles Let's Find Similar Triangles Trigonometric Ratios in the Right Triangles Trigonometric Ratios of Special Angles	Concept Development Dynamic Modeling Interactive Exercise Interactive Exercise Concept Development Procedure Utilization
	<b>Polygons</b>	Sum of the Exterior Angles of Polygons Interior Angles of the Polygons Classification of Quadrilaterals Area of Composite Shapes The Relationship between Perimeter and Area Proof of the Pythagorean Theorem Using the Pythagorean Theorem to Solve Problems Area of Parallelogram Area of a Trapezoid	Visual Proof Dynamic Modeling Dynamic Modeling Concept Development Concept Development Visual Proof Interactive Exercise Visual Proof Visual Proof
	<b>Circle</b>	Arcs and Angles of a Circle Ratio of a Circle's Circumference to Its Diameter Calculating the Circumference of a Circle Formula for the Area of a Circle	Dynamic Modeling Concept Development Interactive Exercise Visual Proof
	<b>3D Geometry</b>	Drawing 2D Views of a 3D Object Completing the Missing 2D View of a 3D Object Observing Changes in Volume of Square Prisms Problem Solving Involving Volumes of Prisms Observing Changes in Volume of Quadrilateral Pyramids Observing Changes in Volume of Cylinders Formula for the Volume of a Sphere Formula for the Volume of a Cone Observing Changes in Surface Area of Regular Prisms Observing Changes in Surface Area of Square Pyramids Observing Changes in Surface Area of Cylinders Observing Changes in Surface Area of Cones	Interactive Exercise Interactive Exercise Dynamic Modeling Problem Solving Dynamic Modeling Dynamic Modeling Visual Proof Visual Proof Dynamic Modeling Dynamic Modeling Dynamic Modeling Dynamic Modeling
<b>Measurement</b>	<b>Measurement</b>	Conversion of Length Measures Conversion of the Area Measures Conversion of Volume Measures Measuring Time	Interactive Exercise Interactive Exercise Interactive Exercise Interactive Exercise
<b>Data Analysis and Probability</b>	<b>Counting Principles</b>	Fundamental Counting Principle Factorial Notation Permutations and Their Properties Combinations	Concept Development Concept Development Concept Development Concept Development

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<b>Data Analysis and Probability</b>	<b>Tables and Graphs</b>	Drawing Bar Graphs Interpreting Bar Graphs Bar Graphs and Line Graphs Circle Graphs Find the Appropriate Graph Double Bar Graphs Tally Charts Pictograph Histogram Line Plot Box and Whisker Plots Stem and Leaf Plot	Interactive Exercise Interactive Exercise Concept Development Concept Development Interactive Exercise Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development Concept Development
	<b>Measurement of Central Tendency</b>	Mean, Median and Mode Calculate Mean, Median, Mode	Dynamic Modeling Interactive Exercise
	<b>Probability</b>	The Concept of Probability Experimental and Theoretical Probabilities Probability Using Tree Diagrams Analyze Experimental Probability Using Graphs Playing with Probability Find the Given Probability Overlapping and Mutually Exclusive Events	Concept Development Concept Development Concept Development Concept Development Concept Development Interactive Exercise Concept Development

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<b>Number and Operations</b>	<b>Numbers</b>	Prime Factorization Greatest Common Factor of Numbers	Procedure Utilization Concept Development
	<b>Sets</b>	The Basics and Properties of Sets Subsets of a Set Union and Intersection of Sets Complement of a Set Difference of Two Sets Problems Involving Sets	Concept Development Concept Development Concept Development Concept Development Concept Development Problem Solving
<b>Algebra</b>	<b>Linear Equations and Inequalities</b>	Solving One-Step Linear Equations Solving Two-Step Linear Equations Graphing Linear Inequalities in One Variable Solving One-Step Linear Inequalities Graphing Linear Inequalities in Two Variables	Procedure Utilization Procedure Utilization Guided Discovery Procedure Utilization Procedure Utilization
	<b>Relations and Functions</b>	Different Forms of Representation for a Relationship The Concept of Relation The Concept of Function Determining Whether a Relation is also a Function The Domain and Range of a Function Fundamental Concepts of the Inverses of Functions Calculations Based on the Graphs of Functions Finding Solution Sets Based on Graphs of Functions	Concept Development Concept Development Concept Development Interactive Exercise Interactive Exercise Concept Development Interactive Exercise Interactive Exercise