

# Math Year At A Glance

Teacher: Lindsay Southwick

	September	October	November	December	January	February	March	April	May	June
6th Grade	<b>Fractions, Decimals, and Percents</b> Percents greater than 100% and less than 1%, Comparing and ordering fractions, Percent of a number	<b>Ratios and Rates</b> Factors and Multiples, Ratio Tables, Graphs, Equivalent Ratios	<b>Compute with Multi-Digit Number</b> Add and subtract decimals, Estimate Products, Multiply and divide decimals, Estimate quotients	<b>Multiply and Divide Fractions</b> Estimate products of fractions, Multiply fractions, Multiply mixed numbers, Dividing whole numbers, fractions and mixed numbers		<b>Integers and the Coordinate Plane</b> Graphs, Absolute value, Compare and order integers, Terminating and repeating decimals	<b>Area and Volume</b> Parallelograms, Triangles, Trapezoids, Changes in Dimensions, Polygons	<b>Expressions</b> Powers and exponents numerical expressions, Variables and expressions, Distributive property, Equivalent expressions	<b>Equations</b> Solve and write addition, subtraction, multiplication, and division equations	<b>Functions and Inequalities</b> Tables, Rules, Writing and graphing inequalities, Solve one-step inequalities
6th Grade Accelerated	<b>Percents</b> Percent of a number, Percent proportion, Percent equation, Sales tax, Tips, Markup, Discount	<b>Ratios and Proportional Reasoning</b> Rates, Complex fractions, Unit rates, Proportionality, Constant rate of change, Slope	<b>Integers</b> Integers and absolute value, Adding, Subtracting, Multiplying and dividing integers	<b>Rational Numbers</b> Terminal and repeating decimals, add and subtract fractions, multiply and divide fractions		<b>Expressions</b> Algebraic expression, Sequence, Distributive property, Linear expressions	<b>Equations and Inequalities</b> One-step addition and subtraction, Multiplication and division, Two-step equations	<b>Geometric Figures</b> Classify angles, Complementary and supplementary angles, Triangles, Scale drawings, 3D figures, Cross sections	<b>Probability</b> Probability of simple events, Theoretical and experimental probability, Compound events	<b>Measure Figures</b> Circumference, area of circles, area of composite figures, volumes
7th Grade	<b>Percents</b> Percent of a number, Percent proportion, Percent equation, Sales tax, Tips, Markup, Discount	<b>Ratios and Proportional Reasoning</b> Rates, Complex fractions, Unit rates, Proportionality, Constant rate of change, Slope	<b>Integers</b> Integers and absolute value, Adding, Subtracting, Multiplying and dividing integers	<b>Rational Numbers</b> Terminal and repeating decimals, add and subtract fractions, multiply and divide fractions		<b>Expressions</b> Algebraic expression, Sequence, Distributive property, Linear expressions	<b>Equations and Inequalities</b> One-step addition and subtraction, Multiplication and division, Two-step equations	<b>Geometric Figures</b> Classify angles, Complementary and supplementary angles, Triangles, Scale drawings, 3D figures, Cross sections	<b>Probability</b> Probability of simple events, Theoretical and experimental probability, Compound events	<b>Measure Figures</b> Circumference, area of circles, area of composite figures, volumes

<b>7th Grade Accelerated</b>	<b>Operations with Integers</b> Algebraic Words and Expressions, Properties, Integers, Absolute Value, Graphing	<b>Operations with Rational Numbers</b> Operations with Fractions	<b>Expressions and Equations</b> Distributive Property, Solving One-Step Equations, Solving Two-Step Equations, Solving Multi-Step Equations, Solving Inequalities	<b>Ratio, Proportion, Similar Figures</b> Unit Rates, Converting Measurements, Scale Drawings, Similar Figures, Dilations, Indirect Measurement	<b>Percent</b> Fractions, Decimals, Percent, Percent Proportion, Percent Equations, Circle Graphs	<b>Linear Functions and Graphing</b> Functions, Rate of Change, Slope, Slope-Intercept Form, Writing Linear Equations	<b>Powers and Nonlinear Functions</b> Powers, Exponents, Prime Factorization, Multiply and Divide Monomials, Negative Exponents, Quadratic Functions	<b>Real Numbers and Right Triangles</b> Squares and Square Roots, Real Number System, Triangles, Pythagorean Theorem, Special Right Triangles, Distance Formula	<b>Distance, Angle, Volume, Surface Area</b> Congruent Triangles, Area of Parallelograms, Triangles, Trapezoids and Circles, Volume and Surface Area of Prisms and Cylinders	
<b>8th Grade</b>	<b>Operations with Integers</b> Algebraic Words and Expressions, Properties, Integers, Absolute Value, Graphing	<b>Operations with Rational Numbers</b> Operations with Fractions	<b>Expressions and Equations</b> Distributive Property, Solving One-Step Equations, Solving Two-Step Equations, Solving Multi-Step Equations, Solving Inequalities	<b>Ratio, Proportion, Similar Figures</b> Unit Rates, Converting Measurements, Scale Drawings, Similar Figures, Dilations, Indirect Measurement	<b>Percent</b> Fractions, Decimals, Percent, Percent Proportion, Percent Equations, Circle Graphs	<b>Linear Functions and Graphing</b> Functions, Rate of Change, Slope, Slope-Intercept Form, Writing Linear Equations	<b>Powers and Nonlinear Functions</b> Powers, Exponents, Prime Factorization, Multiply and Divide Monomials, Negative Exponents, Quadratic Functions	<b>Real Numbers and Right Triangles</b> Squares and Square Roots, Real Number System, Triangles, Pythagorean Theorem, Special Right Triangles, Distance Formula		
<b>8th Grade Accelerated</b>	<b>Expressions and Functions</b> Variables, Order of operation, Properties of numbers, Functions, Graphs	<b>Linear Function</b> Writing equations, Solving one-step equations and with a variable on each side, Ratios and proportions	<b>Linear and Nonlinear Functions</b> Graphing, Zeros of linear functions, Rate of change, Direct Variation, Arithmetic sequences	<b>Equations of Linear Functions</b> Slope intercept form, Standard and point slope forms, Parallel and Perpendicular lines	<b>Linear Inequalities</b> Adding, Subtracting, Multiplication and division to solve equations, Solving compound inequalities, multi-step inequalities, Graphing	<b>Systems of Linear Equations and Inequalities</b> Graphing, Substitutions, Elimination, Systems of equalities and inequalities	<b>Exponents and Exponential Functions</b> Multiplication and division properties of expressions, Rational exponents, Radical expressions	<b>Polynomials</b> Adding and subtracting polynomials, Multiplying a polynomial by monomial, Multiplying polynomials, Special products, Factoring Trinomials, Solving Quadratics, Graphing and Solving Quadratic Functions		
<b>Service Projects</b>	Pew Cleaning - every month				Homeless Connect					

<b>Field Trips</b>		Saint James Proto Cathedral and Mother Joseph Cemetery	Saint Mary's in Portland				8th Grade Retreat	Washington DC	Zoo Trip with Kinder Buddies	Top Golf and Pizza
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