Math Year At A Glance

Teacher: Olivia VanDaele

	September	October	November	December	January	February	March	April	May	June
6th Grade	**Compute with Multi-Digit Number** Add and subtract decimals, Estimate Products, Multiply and divide decimals, Estimate quotients	**Multiply and Divide Fractions** Estimate products of fractions. Multiply fractions, mixed numbers. Divide whole numbers, fractions, and mixed numbers	**Fractions, Decimals, and Percents** Percents greater than 100% and less than 1%, Comparing and ordering fractions, Percent of a number	**Ratios and Rates** Factors and Multiples, Ratio Tables, Graphs, Equivalent Ratios	**Integers and the Coordinate Plane** Graphs, Absolute value, Compare and order integers, Terminating and repeating decimals	**Expressions** Powers and exponents numerical expressions, Variables and expressions, Distributive property, Equivalent expressions	**Equations** Solve and write addition, subtraction, multiplication, and division equations	**Functions and Inequalities** Tables, Rules, Writing and graphing inequalities, Solve one-step inequalities	**Area and Volume** Parallelograms, Triangles, Trapezoids, Changes in Dimensions, Polygons	**Statistical Measures** Calculate mean, median, and mode. Construct Line plots, histograms, and box plots.
6th Grade Accelerated	**Integers** Integers and absolute value, Adding, Subtracting, Multiplying and dividing integers	**Rational Numbers** Terminal and repeating decimals, add and subtract fractions, multiply and divide fractions	**Expressions** Powers and exponents numerical expressions, Variables and expressions, Distributive property, Equivalent expressions	**Equations** Solve and write addition, subtraction, multiplication, and division equations	**Functions and Inequalities** Tables, Rules, Writing and graphing inequalities, Solve one-step inequalities	**Integers** Integers and absolute value, Adding, Subtracting, Multiplying and dividing integers	**Percents** Percent of a number, Percent proportion, Percent equation, Sales tax, Tips, Markup, Discount	**Ratios and Proportional Reasoning** Rates, Complex fractions, Unit rates, Proportionality, Constant rate of change, Slope	**Rational Numbers** Terminal and repeating decimals, add and subtract fractions, multiply and divide fractions	**Statistics** Biased and unbiased samples, collect data and create graphs
7th Grade *	**Integers** Integers and absolute value, Adding, Subtracting, Multiplying and dividing integers	**Rational Numbers** Terminal and repeating decimals, add and subtract fractions, multiply and divide fractions	**Percents** Percent of a number, Percent proportion, Percent equation, Sales tax, Tips, Markup, Discount	**Ratios and Proportional Reasoning** Rates, Complex fractions, Unit rates, Proportionality, Constant rate of change, Slope	**Expressions** Algebraic expression, Sequence, Distributive property, Linear expressions	**Equations and Inequalities** One-step addition and subtraction, Multiplication and division, Two-step equations	**Geometric Figures** Classify angles, Complementary and supplementary angles, Triangles, Scale drawings, 3D figures, Cross sections	**Measure Figures** Circumference, area of circles, area of composite figures, volumes	**Probability** Probability of simple events, Theoretical and experimental probability, Compound events	**Statistics** Biased and unbiased samples, collect data and create graphs
7th Grade Accelerated	**Tools of Algebra** Words, Expressions, Variables, Ordered pairs, Relations, Scatter Plots	**Operations with Integers** Integers, Absolute Value, Operations with integers, Graphing **Expressions and Equations** Distributive Property, Algebraic expressions, Solving Equations, Writing Equations	**Multi-Step Equations and Inequalities** Perimeter, Area, Equations with variables on both sides, Solving Multi-Step Inequalities	**Linear Functions and Graphing** Functions, Sequences, Rate of Change, Slope, Writing linear equations	**Powers** Powers, Exponents, Multiply and divide monomials, negative exponents, Powers of monomials, scientific notation	**Real Numbers and Right Triangles** Squares, Square Roots, Cube Roots, Triangles, Pythagorean Theorem, Distance Formula	**Distance and Angle** Angle and line relationships, Congruent triangles, Rotations **Volume** Volume of prisms, cylinders, spheres, and cones	**Statistics** Measures of central tendency, stem-and-leaf plots, box-and-whisker plots	**Polynomials** Adding, subtracting, multiplying, and dividing polynomials	**Probability** Theoretical, Experimental, Permutations, Combinations
8th Grade	**Tools of Algebra** Words, Expressions, Variables, Ordered pairs, Relations, Scatter Plots	**Operations with Integers** Integers, Absolute Value, Operations with integers, Graphing **Expressions and Equations** Distributive Property, Algebraic expressions, Solving Equations, Writing Equations	**Multi-Step Equations and Inequalities** Perimeter, Area, Equations with variables on both sides, Solving Multi-Step Inequalities	**Linear Functions and Graphing** Functions, Sequences, Rate of Change, Slope, Writing linear equations	**Powers** Powers, Exponents, Multiply and divide monomials, negative exponents, Powers of monomials, scientific notation	**Real Numbers and Right Triangles** Squares, Square Roots, Cube Roots, Triangles, Pythagorean Theorem, Distance Formula	**Distance and Angle** Angle and line relationships, Congruent triangles, Rotations **Volume** Volume of prisms, cylinders, spheres, and cones	**Statistics** Measures of central tendency, stem-and-leaf plots, box-and-whisker plots	**Polynomials** Adding, subtracting, multiplying, and dividing polynomials	
8th Grade Accelerated	**Expressions and Functions** Variables, Order of operation, Properties of numbers, Distributive Property, Equations, Functions	**Linear Equations** Writing equations, Solving one-step equations, multi-step, variables on both sides, and absolute value, Ratios and proportions, Literal Equations	**Linear Functions** Graphing linear equations, Rate of change, Direct Variation, Arithmetic sequences	**Equations of Linear Functions** Slope intercept form, Standard and point slope forms, Parallel, Perpendicular lines	**Linear Inequalities** Adding, Subtracting, Multiplication and division to solve equations, Solving compound and multi-step inequalities **Systems of Linear Equations** Graphing, Substitutions, Elimination	**Exponents and Exponential Functions** Multiplication and division properties of expressions, Rational exponents, Radical expressions	**Quadratic Expressions and Equations** Add, subtract, multiply polynomials, Solve quadratic equations, Difference of Squares, Perfect Squares	**Quadratic Functions and Equations** Graphing Quadratic Functions, Solving by Graphing, Completing the Square, Quadratic Formula	**Radical Functions** Square root function, Simplifying radical expressions	

Service Projects	All Year - Golden Fellowship, Cleaning Santuary After Mass									
Field Trips			Art Museum				7th Grade Hiking Retreat	Seton Play		