

Algebra Enrichment

Month	Content	Skills
September	<p>A. Review of Fraction Skills</p> <p>B. Review of Decimals and Percents</p> <p>C. Word Problems</p> <p>D. Order of Operations</p> <p>E. Distributive Property</p>	<p>A. Add, subtract, multiply, and divide fractions A. Tanagram fractions</p> <p>B. Convert fractions to decimals and percents. B. Convert percents to fractions and decimals.</p> <p>C. Interpret and solve word problems.</p> <p>D. Evaluate Variable Expressions D. Analyze number tricks D. Utilize the order of operations. D. Differentiate between the types of operations D. Write algebraic expressions D. Review rules of integers</p> <p>E. Use the Distributive property in mental math. E. Apply exponent words with the distributive property. E. Apply the distributive property via menu math. E. Use algebra tiles to apply the distributive property.</p>
October	A. Multi Step Equations	<p>A. Combine Like Terms A. Solve Multi- Step Equations A. Solve One-Step Equations A. Solve Two-Step Equations</p>

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	<p>B. Equations with Variables on Both Sides of the Equations.</p> <p>C. Multi-Step Inequalities</p>	<p>B. Model equations with tiles B. Solve equations with variables on both sides.</p> <p>C. Solve inequalities C. Graph inequalities</p>
November	<p>A. Proportions</p> <p>B. Percent Equations</p> <p>C. Graphing and Functions</p>	<p>A. Read, interpret and make scale drawings A. Create and solve ratios and proportions A. Find unit rates</p> <p>B. Read and evaluate percent problems. B. Solve three types of percent problems B. Find the percent increase and the percent decrease.</p> <p>C. Collect and organize data C. Graph data C. Analyze and interpret data</p>
December	<p>Linear Equations and Their Graphs</p> <p>A. Rate of Change and their slope</p> <p>B. Forms of linear equations Slope-Intercept Form Point-Slope Form</p>	<p>A. Subtract Integers A. Reduce Fractions to simplest form</p> <p>B. Identify the difference between x-values and y-values B. Find the y-intercept B. Solve two-step equations</p>

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	<p>Standard Form</p> <p>C. Graphing Linear Equations</p> <p>D. Parallel and perpendicular lines</p>	<p>B. Find the slope of the line B. Convert equations from one form to another</p> <p>C. Plot points C. Determine Slope C. Find the intercepts of the line</p> <p>D. Discover slopes of graphs D. Distinguish between the definition of parallel and perpendicular</p>
January	<p>Solving systems of equations: A. By Graphing</p> <p>B. By Substitution</p> <p>C. By Elimination</p>	<p>A. Graph linear equations A. Determine the point of intersection of two lines</p> <p>B. Utilize the order of operations to solve the system of equations B. Understand the phrase replaces the variable.</p> <p>C. Find least common multiple C. Practice adding like terms C. Manipulate equations to solve the system</p>
February	<p>Exponents and Exponential Functions</p> <p>A. Properties of Exponents: Zero and Negative Exponents Multiplying with the same base Raising a power to a power Product to a power</p>	<p>A. Review integers with exponent rules A. Add integers A. Multiply integers A. Subtract integers</p>

Month	Content	Skills
		<ul style="list-style-type: none"> C. Find the GCF of whole numbers C. Find the squares and cubes of numbers
<p>April</p>	<p>D. Review of polynomials and factoring Quadratics A. Solving Quadratic Equations using Factoring</p> <p>B. Solving Quadratic Equations using the Quadratic Formula</p> <p>C. Review Quadratic Equations and Functions</p>	<ul style="list-style-type: none"> A. Distinguish vocabulary terms: solve vs. factor. A. Use the Zero Product Property A. Rewrite equations into standard form B. Use parentheses correctly when inputting equations into the calculator B. Recognize when there is no solution B. Review square roots B. Review order of operations B. Show understanding of two answers B. Use the discriminate to determine the number of solutions

