

The UbD Template, Version 2.0

Time Frame: 20 days	Unit 4: Linear Equations and Linear Systems	Course Name: Grade 8 Illustrative Math
Stage 1 - Desired Results		
<p>Established Goals What content standards will this unit address?</p> <p>8.EE.C.8: Analyze and solve pairs of simultaneous linear equations. 8.EE.C.7a: Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. 8.EE.C.7b: Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.</p>	Transfer	
	<p>Students will develop a deep understanding of linear equations and systems of linear equations. They will explore the concepts of slope, y-intercept, and solution sets, and apply them to real-world situations. Students will learn how to graph linear equations, solve linear equations algebraically, and solve systems of linear equations using various methods.</p>	
	Meaning	
	<p>UNDERSTANDINGS</p> <ul style="list-style-type: none"> • Students will understand the relationship between the equation of a line and its graphical representation. • Students will understand how to solve linear equations algebraically and interpret the solutions. • Students will understand the concept of a system of linear equations and different methods for solving them. • Students will understand the different types of solution sets for systems of linear equations. 	<p>ESSENTIAL QUESTIONS:</p> <p>How can linear equations be represented graphically and algebraically? What are the methods for solving linear equations, and how can we interpret the solutions? What is a system of linear equations, and how can we solve them? How can we apply linear equations and systems to solve real-world problems?</p>
	Acquisition	
<p>Students will know how to solve linear equations and systems, interpret the solutions in context, and apply their knowledge to analyze and solve problems. <u>Vocabulary:</u></p> <p>System of Equations Substitution Method Elimination Method Graphing Method</p>	<p>Students will be skilled at</p> <ul style="list-style-type: none"> -the value/values of the variables that make the equation true. -Distributive property and simplifying equations -the possibilities of a system having a unique solution, no solution, or infinitely many solutions. 	

	<p>Solution Set Linear Inequality Standard Form Slope-Intercept Form</p>	
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