

Common Core Standards Mathematical Practices	Essential Questions	Skills and Understanding	Resources	Estimated Time
8.EE.5 8.EE.6 8.EE.7 8.EE.7a 8.EE.7b 8.EE.8 8.EE.8a 8.EE.8b 8.EE.8c 8.F.1 8.F.2 8.F.3 8.F.4 MP1 MP3	<p>EXPRESSIONS AND EQUATIONS</p> <p>How can you use a table to determine if there is a proportional relationship between two quantities?</p> <p>How is slope represented in various forms?</p> <p>How are linear equations graphed?</p> <p>How are systems of linear equations solved algebraically?</p>	<ul style="list-style-type: none"> Analyzing linear equations and systems of linear equations to represent analyze and solve a variety of problems Equations for proportions ($y/x=m$ or $y=mx$) as special linear equations ($y=mx + b$) to understanding that the constant of proportionality (m) is the slope, and the graphs are lines through the origin Slope (m) through a line is a constant rate of change Linear equations describes the association of two quantities in bivariate data Express relationship between two quantities and interpret components of the relationship 	<p>Illuminations</p> <p>Mathematical Practices</p> <p>Inside Mathematics</p> <p>Illustrative Math</p> <p>Homework Spot</p> <p>Cool Math</p> <p>Book:</p> <p>Chapter 4- sections 1-5 Chapter 10- ALL</p>	

		<ul style="list-style-type: none"> • Procedures to solve linear equations in one variable, understanding that equality and logical equivalence maintain the solutions of the original equation • Two linear equations in two variables relate the systems to pairs of lines in the plane • Using linear equations, systems of linear equations, linear functions, and slope to analyze situations and solve problems 		
8.F.3 8.F.3 8.F.4 8.F.5 MP1 MP3	FUNCTIONS How can we model relationships between quantities?	<ul style="list-style-type: none"> • Functions as a rule that assigns to each input exactly one output • Functions describe situations where one quantity determines another • Translate representations and partial representations of functions (noting that tabular and graphical representations may 	Chapter 11- ALL Chapter 12- pages 558-596	

		be partial representations) • How aspects of functions are reflected in different representations		
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If Time Permits: ADD Chapter 9 Sections 1-7 (This chapter will pre-teach CCLS Stats Unit and should be taught at the end of Summer School).