

Accelerated Mathematics 8 Pacing Guide

1st Semester Topics				
1 st Nine Weeks		2 nd Nine Weeks		
Unit 1: Equations and Inequalities	Unit 2: Linear Relationships	Unit 3: Functions	Unit 4: Systems of Linear Equations and Inequalities	
<ul style="list-style-type: none"> Multi-Step Equations Algebraic Proportions Absolute Value Equations Multi-Step Inequalities Compound Inequalities Absolute Value Inequalities 	<ul style="list-style-type: none"> Slope Graphing Linear Equations in slope-intercept, point-slope and standard form Proportional vs Non-Proportional Relationships Scatterplots Lines of Best Fit Linear Relationship Applications 	<ul style="list-style-type: none"> Functions Rule Classifying Functions Function Notation Domain and Range Discrete vs Continuous functions Step Functions 	<ul style="list-style-type: none"> Solving by Graphing, Substitution, and Elimination Application Problems Graphing Linear Inequalities Graphing Systems of Linear Inequalities Applications of Systems of Linear Inequalities 	
2nd Semesters Topics				
3rd Nine Weeks		4 th Nine Weeks		
Unit 5: Absolute Value Functions	Unit 6: Exponential Expressions and Functions	Unit 7: Polynomials and Factoring	Mini Unit: Pythagorean Theorem	Unit 8: Quadratics Functions
<ul style="list-style-type: none"> Graphing Absolute Value Functions Application of Absolute Value Functions Transformations of Absolute Value Functions 	<ul style="list-style-type: none"> Laws of Exponents Geometric Sequences Scientific Notation Exponential Functions Exponential Growth and Decay Transformations of Exponential Functions 	<ul style="list-style-type: none"> Classifying Polynomials Simplifying Polynomials Factoring 	<ul style="list-style-type: none"> Pythagorean Theorem Converse of the Pythagorean Theorem Application of Pythagorean Theorem Distance on the Coordinate Plane 	<ul style="list-style-type: none"> Graphing Quadratics Functions Vertex Form Transformations of Quadratic Functions Solving Quadratics Equations using factoring, Completing the square and Quadratic formula Applications of Quadratics Functions