

**REDBANK VALLEY SCHOOL DISTRICT
MATHEMATICS CURRICULUM MAP**

ALGEBRA I GRADES 8-12

CHAPTER	1	2 & 3	4	5	5 & 6	6 & 7	7 & 8	9	9
TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Numbers, Number Systems & Number Relationships	Order of Operations	Write and Solve Percent Equations; Percent of Change; Simple Interest							
Computation & Estimation	Adding, Subtracting, Multiplying, and Dividing Integers, Real Numbers, and Rational Numbers						Rules for Exponents		Simplifying Radicals; Adding and Subtracting Radicals
Measurement & Estimation									
Mathematical Reasoning & Connections									
Mathematical Problem Solving & Communication			Interpreting Solutions						

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TOPICS	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Statistics & Data Analysis	Graphs; Mean, Median, and Mode; Basic Matrix Operations	Analyze Data Using Scatter Plots							
Probability & Predictions	Experimental Probability; Dice Experiments	Theoretical Probability; Probability of Independent and Dependent Events							
Algebra & Functions	Modeling Relationships through Variables	Relating Graphs to Events; Linking Graphs to Tables; Determining Functions	Solving Various Equations; Transforming Formulas; Solving Inequalities	Computing Slope; Direct Variation; Equations of Lines Using Slope, Intercept, and Standard Forms	Intercepts of Lines; Solving Systems of Linear Equations and Inequalities	Solving Systems of Non-Linear Equations; Exploring, Graphing, and Solving Quadratic Functions	Quadratic Formula; Using the Discriminant; Exponential Functions		Solving and Graphing Radical Equations
Geometry	Algebra and Functions	Writing Functions; 3 Views of Functions; Modeling and Solving Equations	Proportions for Similar Figures		Parallel and Perpendicular Lines			Pythagorean Theorem; Distance Formula	
Trigonometry		Graph Functions on Calculators						Trigonometric Ratios	
Concepts of Calculus				Slopes and Rates of Change		Linear of Programming; Maximum and Minimum of Quadratic Functions			