

Richmond Public Schools Pacing Chart Outline
Algebra 1

Quarter	2017 SOL #	Objective	Timeline	Prerequisite (Review before each unit)
1	A.1	Unit 1: Variables and Expressions A. Translate verbal into algebraic expressions B. Evaluate Algebraic Expressions	5 blocks 3 block 2 block	Order of Operations Operations With Real Numbers
	A.2	Unit 2: Polynomials A. Adding/ subtracting Polynomial B. Multiplying/Dividing Polynomial	7 blocks 3 block 4 block	Combining Like Terms
	A.3	Unit 3: Powers, Exponents, and Radicals A. Laws of Exponents B. Square Roots C. Cube Roots	4 blocks 1 block 1 block 1 block	Input symbols into calculator
*Review, Reteach, and Cumulative Assessment				

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2	A.4 ae A.4c	Unit 4: Solving Linear Equations A. Literal Equations B. Solving multi-step equations/Real World Problems	4 blocks 2 block 2 block	Inverse operations Integers One-step equations Two step equations
	A.5ac	Unit 5: Solving Linear Inequalities: A. Solving multi-step inequalities/Real World Problems	2 blocks 1 block 1 block	Inequality rules Integers
	A.6abc	Unit6: Graphing And Writing Linear Functions A. Determine slope given a graph, 2 points or an equation B. Writing equations given a graph C. Writing equations given slope, 2 points or a point and slope	9 blocks 3 days 3days 3days	Coordinate plane Graphing points

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3	A.7abef	Unit 7: Linear Relations and Functions A. Determine whether a relation is a function B. Identify Domain and Range algebraically and graphically of a linear function C. Find Values of a function for elements in its Domain D. Making connections among functions concrete verbal, numeric, graphic, and algebraically	5 blocks	Coordinate plane Graphing points Tables Input output
	A.8	Unit 8: Direct and Inverse variation A. Direct variation algebraically and graphically B. Inverse variation algebraically C. Determine if direct or inverse variation exist in a real world situation	4 blocks	Coordinate plane Graphing points Tables Reading graphs
	A.4de A.5bcd	Unit 9: Systems of Equations and Inequalities A. Solving Systems of Equations Graphically and Algebraically B. Represent the solution of linear inequalities in two variables graphically; C. Solve practical problems involving inequalities; and represent the solution to a system of inequalities graphically.	8 blocks	
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4	A.2c	Unit 10: Factoring A. Factoring completely first and second degree Binomials B. Factoring completely first and second degree Trinomials	2 blocks	Factors and GCF
	A.4b A.7cd	Unit 11: Quadratics equations and functional relationship A. Solving quadratics Graphically and algebraically B. Identify Domain and Range algebraically and graphically of a quadratic function C. Zeros of a Quadratic relation Graphically and algebraically D. X- and Y- intercepts of a Quadratic relation Graphically and algebraically E. Curve of Best Fit	3 blocks	
	A.9	Unit 12: Statistics A. Curve of Best fit	2 blocks	
	SOL Review and Testing			
Unit 13 Geometry Project—100 definitions/20 selfie project A. Define 100 geometry terms B. Take 20 selfies illustrate terms C. Place all terms on PowerPoint				