Algebra 1
Scope and Sequence 2015-2016

Topics	**TEKS**

1ST NINE WEEKS

Topics	TEKS
Real Numbers (Ch 0-2)	A.11.A
Add and Subtract Integers and fractions (Ch 0-3 and 0-4)	
Multiply and Divide Integers and fractions (Ch 0-3 and 0-5)	
order of operations (Ch 1-2)	
Signed Numbers and Order of Op	
Combining like terms	
Combining like terms and Dist. Prop (Ch 1-4)	A.10.D
Variables and Expressions, buzz words, writing equations (Ch 1-1, 2-1)	A.5.A
One Step Equations (Ch 2-2)	A.5.A
Two Step Equations (Ch 2-3)	A.5.A
Multi-step (Ch 2-3)	A.5.A
Multi-Step;	
Variables on Both Sides (ch 2-4)	A.5.A
Identity and No Solution	A.5.A
Solving with Ratios and Proportions (Ch 2-6)	
Review of (Various Step) Equations	
Perimeter Problems	
Consecutive Integer Problems (Ch 2-3)	A.5.A
Consecutive Integer (Even and Odd) Problems	
Percent Change Problems (Ch 2-7)	
Transforming Equations (Ch 2-8)	A.12.E
Literal Equations (Ch 2-8)	A.12.E
Cartesian coordinate system; ind and dep variable (ch1-6)	A.2.A
ind and dep variable (tie in domain and range)	
Real World Graphs (1-6 to 1-8)	A.2.A, A.12.A, A.12.B, A.3.C, A.7.A
Relations and Functions and Identifying Functions (ch 1-6 and 1-7)	
Domain and Range with Inequalities (and/or words?)	
Graphing Linear Equations using Standard Form and x and y intercepts (Ch 3-1)	A.2.B, A.3.C
Rate of Change and Slope (Ch 3-3)	A.3.A, A.3.B
Mini lesson on Zeros of a Function (Ch 3-2); Horizontal and Vertical Lines	A.2.A, A.3.C
Direct Variation (Ch 3-4)	A.2.D, A.3.C
Arithmetic Sequences as Linear Functions/ Writing Equations from tables (Ch 3-5)	A.2.A, A.12.D

Graphing Lines in Slope-Intercept Form (Ch 4-1)	A.3.A, A.3.C

2ND NINE WEEKS

Writing Equations in Slope-Intercept Form (Ch 4-2)	A.2.B, A.2.C
Writing Equations in Point-Slope Form (Ch 4-3)	A.2.B, A.2.C, A.3.A
Parallel Lines and Perpendicular Lines (Ch 4-4)	A.2.E, A.2.F, A.2.G
Scatterplots, Correlations and Lines of Fit (Ch 4-5)	A.4.C
Linear Regression and Line of Best Fit (Ch 4-6)	A.4.A, A.4.C
Inverse Linear Function (Ch 4-7)	Not a TEK
Intro to Inequalities, Solving One Step Inequalities and graphing solutions on a number line (Ch 5-1 and 5-2)	A.2.H, A.5.B
Solving Multi-Step Inequalities (Ch 5-3)	A.2.H, A.5.B
Solving Compound Inequalities (Ch 5-4)	A.5.B
Domain and Range with Inequalities	
Graphing Inequalities in Two Variables (Ch 5-6)	A.3.D
Review Linear Equations and Linear Applications	
Linear Applications	
Linear Applications	
Solving Systems of Equations by Graphing (Ch 6-1)	A.3.F, A.3.G
Solving Systems of Equations by Graphing	
Solving Systems of Equations by Substitution (Ch 6-2)	A.2.I, A.5.C
Solving Systems of Equations by Substitution	
Review for Exams	
Review of Solving Systems	
Solving Systems of Equations by Elimination (Ch 6-3)	A.2.I, A.5.C
Solving Systems of Equations by Elimination using Multiplication (Ch 6-4)	A.2.I, A.5.C
Solving Systems Applications (Ch 6-5)	A.2.I, A.5.C
Writing Systems	
Applications and Systems	

3RD NINE WEEKS

Graphing Systems of Linear Inequalities	A.3.H
Graphing Systems of Linear Inequalities (with Calc)	
Review of Combining Like Terms with focus on Exponents, Define Exponents, Zero Property, Negative Exponents	
Multiplication Properties of Exponents (Ch 7-1)	A.11.B
Division Properties of Exponents (Ch 7-2)	A.11.B

Rational Exponents (Ch 7-3)	A.11.A, A.11.B
Scientific Notation (Ch 7-4)	A.11.B
Exploring Exponential Functions (Ch 7-5), include finding y-int and knowing the asymptote	A.9.A, A.9.D, A.9.C
Growth and Decay (Ch 7-6)	A.9.B, A.9.C
Geometric Sequences as Exponential Functions (Ch 7-7)	A.9.C, A.12.D
Adding and Subtracting Polynomials (Ch 8-1)	A.10.A
Multiplying a Polynomial by a Monomial (Ch 8-2)	A.10.B, A.10.D
Multiplying Polynomials (Ch 8-3)	A.10.B
Special Products (Ch 8-4)	A.10.B
Factoring by GCF (Ch 8-5)	A.8.A
Factoring by Grouping (Ch 8-5)	A.8.A
Factoring Quad Trinomials where a=1, c+ (Ch 8-6)	A.8.A, A.10.E
Factoring Quad Trinomials where a=1, c- (Ch 8-6)	A.8.A, A.10.E
Solving Quadratic Trinomials where a=1 (Ch 8-6)	A.8.A, A.10.E
Factoring Quadratic Trinomials where a does not = 1 (Ch 8-7)	A.8.A, A.10.E
Solving Quadratic Trinomials where a does not = 1 (Ch 8-7)	A.8.A, A.10.E
Difference of Two Squares (Ch 8-8)	A.8.A, A.8.F
Perfect Squares (Ch 8-9)	A.8.A, A.10.E
Exploring and Graphing Quadratic Functions (Ch 9-1), key vocab	A.6.A, A.7.A
Solving Quadratic Equations by Graphing (Ch 9-2)	A.6.C, A.7.B, A.7.A
Solving Quadratic Equations with a Calc, finding min/max, axis of sym	A.6.C, A.7.B, A.7.A
Parabola Word Problems	
Parabola Word Problems	
Transformations of Quadratic Functions (Ch 9-3)	A.6.B, A.7.C, A.7.A
Transformations of Quadratic Functions (Ch 9-3)	A.6.B, A.7.C, A.7.A
Solving Quadratic Equations by Completing the Square (Ch 9-4)	A.8.A

4TH NINE WEEKS

Solving Quadratic Equations by Completing the Square (Ch 9-4); knowing what the vertex and axis of Symmetry are	A.8.A

Solving Quadratic Equations using the Quadratic Formula (Ch 9-5)	A.8.A
Solving Quadratic Equations using the Quadratic Formula (Ch 9-5)	A.8.A
Analyzing Functions with Success Differences, finding the best model, using regressions on Calc (Ch 9-6)	A.8.B
Analyzing Functions with Success Differences, finding the best model, using regressions on Calc (Ch 9-6)	A.8.B
Special Functions (Ch 9-7)	
Special Functions, link to domain and range with inequalities (Ch 9-7)	
Simplifying Square Roots (Ch10-2)	A.11.A
Simplifying Square Roots by multiplying (Ch10-2)	A.11.A
EOC Review	
Evaluate, Simplify, Multiplying Radicals Review (Ch 10-2)	A.11.A
Simplifying by Adding and Subtracting Radicals (Ch 10-2 and 10-3)	A.11.A
Simplifying by Dividing Radicals (Ch10-2)	A.11.A
Simplifying by Dividing Radicals	A.11.A
Dividing Polynomials (Ch 11.5)	A.10.C
Dividing Polynomials (Ch 11.5)	
Final Exam Review	