Algebra 1 – CC **Name: _____**
Syllabus 2016 – 2017

Date	Topics
15 Sept. 9 – Sept. 29	Ch. 1 **Building Blocks** – *Variables, expressions, properties, structure.*
21 Sept. 30 – Nov. 1	Ch. 2 **Linear Expressions, Equations, Inequalities** *Multistep equations, solving for a variable (literal equations), interval notation, compound inequalities.* *Project: Gender Inequalities Lab*
11 Nov. 2 – Nov. 17	Ch. 3 **Functions** – *Notation, max/min, domain/range, y-intercept, zeroes, piecewise, step.* *Project: Global Temp Lab*
18 (+3 Lab) Nov. 18 – Dec. 21	Ch. 4 **Linear Functions** *Slope, calculator, slope/intercept form, solving equations, solve for y, arithmetic sequence, absolute value, step functions.* *Project: Latitude vs. Temperature Lab (3 days)*
12 Dec. 22 – Jan. 17	Ch. 5 **Systems of Linear Equations and Inequalities** – *Graphing, substitution, elimination, inequalities in two variables modeling.* *(Do even more with systems)* *Project: India-China*
4 Jan. 18 – Jan. 23	**Midterm Review**
12 Jan. 30 – Feb. 14	Ch. 6 **Exponents** – *Exponent properties, negative exponents, rational exponents,* **%** *increasing/decreasing, geometric sequences* *Project: World Population, Golf ball Lab*
10 Feb. 15 – Mar. 7	Ch. 7 **Polynomials** – Factoring, *GCF, lead coefficients = 1, differences of squares, add trinomial squares, also see June '14 # 31*
12 Mar. 8 – Mar. 23	Ch. 8 **Quadratic Functions** – *Parabolas, vertex, y-intercept, roots, orientation, complete the square, calculator use*
12 Mar. 24 – Apr. 10	Ch. 9 **Roots and Irrational Numbers** -- *Irrational numbers, finding zeros, completing the square, quadratic formula, cube roots*
13 Apr. 11 – May 4	Ch. 10 **Statistics** – *Univariate/bivariate, central tendency, range, histograms, box and whisker, scatterplots, linear regression, correlation/causation, residuals* *Project: Global Food Cost*
11 May 5 – May 19	Ch. 11 **Modeling w/ Functions** – *Transformations, Step functions, piecewise…more linear programming questions…applications*
15 May 22 – June 13	**Review / Projects**

Total = 169