Algebra 1B
Updated 2020

Course Description:
Algebra 1B is a continuation of Algebra 1A. Algebra 1B will extend the study of *CCR skills through application of higher levels of Depth of Knowledge. At the conclusion of the Algebra 1B course, students will complete the Algebra I EOC assessment. Algebra 1B is a foundation for Geometry & Measurement.
.

Big Ideas:
1. A single quantity may be represented by many different expressions.
2. Solving an equation is the process of rewriting the equation to make what it says about its variable(s) as simple as possible. The numbers and types of solutions vary predictably, based on the type of equation.
3. Useful information about equations and inequalities (including solutions) can be found by analyzing graphs, tables and statistical data.
4. Many real-world mathematical problems can be represented algebraically. These representations can lead to algebraic solutions along with estimations and predictions about future occurrences.

Essential Learner Outcomes:

ELO #	Essential Learner Outcome Description	Standard
1	Perform operations on polynomials	A1.APR.A
2	Create Equations that describe linear, quadratic and exponential relationships	A1.CED.A
3	Interpret linear, quadratic, and exponential functions in terms of the context.	A1.IF.B
4	Analyze linear, quadratic, and exponential functions using different representations.	A1.IF.C
5	Build new functions from existing functions (limited to linear, quadratic and exponential)	A1.BF.A
6	Summarize, represent and interpret data.	A1.DS.A
7	Represent and solve linear and exponential equations and inequalities graphically	A1.REI.C
8	Solve Systems of equations	A1.REI.B
9	Extend and use properties of rational exponents	A1.NQ.A
10	Construct and compare linear, quadratic and exponential models and solve problems.	A1.LQE.A

11	Interpret and use structure	A1.SSE.A