Pacing Guide - Algebra 1 8th grade

Content Area: **Math**
Course(s): **Sample Course, Algebra 1**
Time Period:
Length: **180 days**
Status: **Published**

Unit Pacing Guides

Belleville Public Schools Unit Pacing Guide

Content Area: Mathematics
Course(s): Algebra 1 8th grade

Time Period: 180 days

Division of Units / Topics:

MP 1 - Expressions & Equations	MP 1 - Expressions & Equations
Topic - Textbook Section - Curricular Unit(s)	(41+ Days)
Writing Equations - 2.1 - Unit 1	
Solving One-Step Equations - 2.2 - Unit 1	

Solving Multi-Step Equations - 2.3 - Unit 1 Ratios & Proportions - 2.6 - Unit 1 Percent of Change - 2.7 - Unit 1 Solving Equations with the Variable on Each Side - 2.4 - Unit 1 Literal Equations - 2.8 - Unit 1 Solving Inequalities by Addition & Subtraction - 5.1 - Unit 2 Solving Inequalities by Multiplication & Division - 5.2 - Unit 2 Solving Multi-Step Inequalities - 5.3 - Unit 2 Solving Compound Inequalities - 5.4 - Unit 2 Solving Equations Involving Absolute Value - 2.5 - Unit 2 PARCC practice- https://www.state.nj.us/education/aps/cccs/math/resources.htm	
MP 2 - Linear Relationships Topic - Textbook Section - Curricular Unit(s) Relations - 1.6 - Unit 5 Functions - 1.7 - Unit 5 Graphing Linear Equations - 3.1 - Unit 3 Solving Linear Equations by Graphing - 3.2 - Unit 3 Rate of Change and Slope - 3.3 - Unit 3 Graphing Equations in Slope Intercept Form - 4.1 - Unit 3 Writing Equations in Slope-Intercept Form - 4.2 - Unit 3 Investigate relationships between quantities by using a Scatterplot -4.5- Unit 3 Write Equations of best-fit lines using linear regression - 4.6- Unit 3 https://www.desmos.com/	**MP 2 - Linear Relationships** (43+ Days)

MP 3- Linear, Quadratic, & Exponential Relationships Topic - Textbook Section - Curricular Unit(s) Solve Systems of Equations by Graphing - 6.1 - Unit 4 Solve Systems of Equations by using Substitution - 6.2- Unit 4 Solve Systems of Equations using Elimination with Addition & Subtraction- 6.3 - Unit 4 Solve System of Equations using Elimination with Multiplication - 6.4 - Unit 4 Graph Linear Inequalitites - 5.6 - Unit 4 Solve Inequalities by Graphing - 6.6 - Unit 4 Analyze and Graph Quadratic Functions - 9.1 - Unit 5 Solve Quadratic Equations by Graphing - 9.2 - Unit 5 Transformation of Quadratic Functions - 9.3 - Unit 5 Identify and Graph piecewise, absolute value and step functions - 9.7 - Unit 5 Graph and Identify Expontial Functions - 7.5 - Unit 5 Exponential Growth and Decay(Graphing Calculator) - 7.6 - Unit 5 Multiplication and Division Properties of Exponents - 7.1 & 7.2 - Unit 6	**MP 3- Linear, Quadratic, & Exponential Relationships** (43+ Days)

MP 4- Polynomials, Factoring & Quadratic Equations **Topic - Textbook Section- Curricular Unit** Adding and Subtracting Polynomials - 8.1 - Unit 6 Solve Equations Iusing Multiplication of Monomials and Polynomials - 8.2 - Unit 6 Multiply Polynomials using the Distributive Property - 8.3 - Unit 6 Factor Polynomials and Solve Equations ax^2 + bx = 0 - 8.5- Unit 6 Factor Trinomials and Solve Equations x^2 + bx +c = 0 - 8.6- Unit 6 Factor Polynomials and Solve Equations ax^2 + bx +c = 0 - 8.7- Unit 6 Diiference of Squares - 8.8 - Unit 6 Quadratic Formula - 9.5 - Unit 7 Simplify Radical Expressions - 10.1 - Unit 7 Add, Subtract & Multipli Radical Expressions - 10.3 - Unit 7 Apply the Pythagorean Theorem to solve problems involving right triangles -10.5 - Unit 7	**MP 4- Polynomials, Factoring & Quadratic Equations** (43+ Days)