# Pacing Guide - Algebra 1 8th grade <br> Content Area: Math <br> Course(s): Sample Course, Algebra 1 <br> Time Period: Length: <br> Status: <br> 180 days 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:

| Equations MP $1 \quad$ - Expressions  <br> Topic - Textbook Section Curricular Unit(s)  | MP 1 - Expressions \& Equations (41+ Days) |
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| Writing Equations - 2.1-Unit 1 |  |
| Solving One-Step Equations - 2.2-Unit 1 |  |


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


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


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

