

# 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:**

<div>MP1 - Expressions &amp; Equations</div> <div>Topic - Textbook Section - Curricular Unit(s)</div> <div>Writing Equations - 2.1 - Unit 1</div> <div>Solving One-Step Equations - 2.2 - Unit 1</div>	<div>MP 1 - Expressions &amp; Equations</div> <div>(41+ Days)</div>
--	---

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

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

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