

# 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

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## Belleville Public Schools Unit Pacing Guide

**Content Area: Mathematics**  
**Course(s): Algebra 1 8th grade**  
**Time Period: 180 days**

**Division of Units / Topics:**

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

Diifference 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)