

Unit Pacing Guide Algebra 1 H 8th grade

Content Area: **Math**
Course(s): **Math 8H Algebra 1**
Time Period:
Length: **180 days**
Status: **Published**

Unit Pacing Guide



Belleville Public Schools Unit Pacing Guide

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

Division of Units / Topics:

<p>MP 1 - Expressions & Equations</p> <p>Topic - Textbook Section - Curricular Unit(s)</p>	<p>MP 1 - Expressions & Equations</p>
---	--

(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-

MP 2 - Linear Relationships

(43+ Days)

Unit 3

<https://www.desmos.com/>

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

MP 3- Linear, Quadratic, & Exponential Relationships

(43+ Days)

<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 & 7.2 - Unit 6</p>	
<p>MP 4- Polynomials, Factoring & Quadratic Equations</p> <p>Topic - Textbook Section- Curricular Unit</p> <p>Adding and Subtracting Polynomials - 8.1 - Unit 6</p> <p>Solve Equations Using Multiplication of Monomials and Polynomials - 8.2 - Unit 6</p> <p>Multiply Polynomials using the Distributive Property - 8.3 - Unit 6</p>	<p>MP 4- Polynomials, Factoring & Quadratic Equations</p> <p>(43+ Days)</p>

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