

INNOVATION IN EDUCATION

## Prentice Hall Algebra 1 (Florida)

---

December 2010



# DESTINATION MATH



HOUGHTON MIFFLIN  
LEARNING TECHNOLOGY

**Destination Math**  
**Aligned to**  
**Prentice Hall Algebra 1 (Florida)**  
**Grade 7-12**

Prentice Hall Algebra 1 (Florida)	Destination Math
Grade 7-12	
Chapter 1 Foundations for Algebra	
1-1 Variables and Expressions	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.3.1: Using Variables to Express Relationships</li> </ul> <b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.1.1: Translating Words into Expressions</li> </ul>
1-2 Order of Operations and Evaluating Expressions	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 4.3.1: Simplifying Expressions</li> </ul> <b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.2.3: Evaluating Expressions Using Substitution</li> <li>• 1.3.2: Simplifying Algebraic Expressions</li> </ul> <b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.1.2: Applying Properties of Real Numbers</li> <li>• 1.1.3: Evaluating and Simplifying Expressions</li> </ul>
1-3 Real Numbers and the Number Line	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 1.2.3: Writing and Comparing Equivalent Fractions</li> <li>• 2.1.3: Exploring Repeating and Terminating Decimals</li> <li>• 4.1.1: Exploring the Number Line and Absolute Value</li> </ul> <b>Course V:</b> <ul style="list-style-type: none"> <li>• 3.1.2: Investigating Squares &amp; Square Roots</li> <li>• 3.1.3: Defining Irrational Numbers</li> </ul> <b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 1.1.1: Defining the Real Numbers</li> </ul>
1-4 Properties of Real Numbers	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.1.2: Applying Properties of Real Numbers</li> </ul>
1-5 Adding and Subtracting Real Numbers	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 4.1.2: Adding with Absolute Value</li> <li>• 4.1.3: Subtracting with Absolute Value</li> </ul>
1-6 Multiplying and Dividing Real Numbers	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 4.2.1: Finding Products of Signed Numbers</li> <li>• 4.2.2: Representing the Multiplication of Signed Numbers</li> <li>• 4.2.3: Finding Quotients Using Reciprocals</li> </ul>
1-7 The Distributive Property	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 4.3.1: Simplifying Expressions</li> <li>• 4.3.2: Introducing the Distributive Property</li> <li>• 4.3.3: Using Grouping Symbols</li> </ul> <b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.2.2: Combining Like Terms</li> <li>• 1.2.3: Simplifying Algebraic Expressions</li> </ul>
1-8 An Introduction to Equations	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.3.3: Solving Simple Equations</li> <li>• 1.4.1: Writing Equations</li> </ul>
1-9 Patterns, Equations, and Graphs	<b>Course III:</b> <ul style="list-style-type: none"> <li>• 5.2.1: The Coordinate Plane</li> </ul> <b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Graphing Ordered Pairs</li> </ul>

2 \*Destination Math does not align to all standards. Those standards are not shown on this document. This document is a correlation of Destination Math, to Prentice Hall Algebra 1 (Florida).

**Destination Math**  
**Aligned to**  
**Prentice Hall Algebra 1 (Florida)**  
**Grade 7-12**

<b>Chapter 2 Solving Equations</b>	
2-1 Solving One-Step Equations	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.3.3: Solving Simple Equations</li> </ul> <b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.2.1: Applying Inverse Operations</li> </ul>
2-2 Solving Two-Step Equations	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.3.3: Solving Simple Equations</li> </ul> <b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.2.2: Transforming Equations using Multiple Operations</li> </ul>
2-3 Solving Multi-Step Equations	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.2.2: Combining Like Terms</li> </ul> <b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.2.2: Transforming Equations using Multiple Operations</li> </ul>
2-4 Solving Equations With Variables on Both Sides	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.4.2: Simplifying Both Sides of an Equation</li> <li>• 1.4.3: Checking the Solution to an Equation</li> </ul>
2-5 Literal Equations and Formulas	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 1.2.1: Representing the Dimensions &amp; Area of a Rectangle</li> <li>• 1.5.1: Identifying the Variables in a Given Formula</li> <li>• 1.5.2: Rewriting a Formula in Terms of a Different Variable</li> <li>• 1.5.3: Substituting Values &amp; Solving an Equation</li> </ul>
2-6 Ratios, Rates, and Conversions	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 4.1.1: Defining Ratio</li> <li>• 4.1.2: Expressing Ratios as Equivalent Fractions &amp; Decimals</li> <li>• 4.1.3: Forming Ratios between Unlike Quantities</li> </ul>
2-7 Solving Proportions	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 4.2.1: Defining a Proportion</li> <li>• 4.2.2: Solving for a Variable in a Proportion</li> <li>• 4.2.3: Applying the Means/Extremes Property</li> </ul>
2-8 Proportions and Similar Figures	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 4.4.1: Defining Similarity</li> <li>• 4.4.2: Identifying Equivalent Ratios</li> <li>• 4.4.3: Setting up &amp; Solving Proportions in Similar Polygons</li> </ul>
2-9 Percents	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 3.2.1: Finding Percents of a Whole</li> <li>• 3.2.2: Expressing Ratios as Percents</li> <li>• 3.2.3: Calculating the Whole from a Part and a Percent</li> <li>• 3.3.3: Calculating Simple Interest</li> </ul>
2-10 Change Expressed as a Percent	<b>Course IV:</b> <ul style="list-style-type: none"> <li>• 3.3.1: Calculating Percent Increases</li> <li>• 3.3.2: Calculating Percent Decreases</li> </ul>

**Destination Math**  
**Aligned to**  
**Prentice Hall Algebra 1 (Florida)**  
**Grade 7-12**

<b>Chapter 3 Solving Inequalities</b>	
3-1 Inequalities and Their Graphs	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 4.1.2: Graphing Solutions on a Number Line</li> </ul>
3-2 Solving Inequalities Using Addition or Subtraction	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 4.1.1: Applying Inverse Operations</li> </ul>
3-3 Solving Inequalities Using Multiplication or Division	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 4.1.1: Applying Inverse Operations</li> </ul>
3-4 Solving Multi-Step Inequalities	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 4.1.1: Applying Inverse Operations</li> </ul>
3-7 Absolute Value Equations and Inequalities	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 1.2.3: Solving Absolute Value Equations</li> <li>• 4.1.3: Solving Absolute Value Inequalities</li> </ul>
<b>Chapter 4 An Introduction to Functions</b>	
4-1 Using Graphs to Relate Two Quantities	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Graphing Ordered Pairs</li> </ul>
4-2 Patterns and Linear Functions	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Graphing Ordered Pairs</li> </ul>
4-3 Patterns and Non-Linear Functions	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Graphing Ordered Pairs</li> </ul>
4-4 Graphing a Function Rule	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Graphing Ordered Pairs</li> </ul>
4-5 Writing a Function Rule	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.2.3: Relations and Functions</li> </ul>
4-6 Formalizing Relations and Functions	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.2.3: Relations and Functions</li> </ul>
<b>Chapter 5 Linear Functions</b>	
5-1 Rate of Change and Slope	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.2: Defining Slope</li> </ul>
5-2 Direct Variation	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 4.3.1: Exploring &amp; Solving Direct Variation Problems</li> </ul>
5-3 Slope-Intercept Form	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.2.1: Exploring the Slope-Intercept Equation of a Line</li> </ul>
5-4 Point-Slope Form	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.2.2: Exploring the Point-Slope Equation of a Line</li> </ul>
5-5 Standard Form	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 2.1.3: Finding x- and y- Intercepts</li> </ul>
5-6 Parallel and Perpendicular Lines	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 3.1.3: Graphing Parallel &amp; Perpendicular Lines</li> </ul>
5-7 Scatter Plots and Trend Lines	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 5.1.2: Scatter Plots &amp; Linear Best-Fit Graphs</li> </ul>

4 \*Destination Math does not align to all standards. Those standards are not shown on this document. This document is a correlation of Destination Math, to Prentice Hall Algebra 1 (Florida).

**Destination Math**  
**Aligned to**  
**Prentice Hall Algebra 1 (Florida)**  
**Grade 7-12**

<b>Chapter 6 Systems of Equations and Inequalities</b>	
6-1 Solving Systems by Graphing	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 3.1.1: Finding the Point of Intersection</li> </ul>
6-2 Solving Systems Using Substitution	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 3.2.1: Using Substitution to Eliminate a Variable</li> </ul>
6-3 Solving Systems Using Elimination	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 3.2.2: Using Addition or Subtraction to Eliminate a Variable</li> </ul>
6-5 Linear Inequalities	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 4.2.1: Graphing Solutions on a Rectangular Coordinate Plane</li> </ul>
6-6 Systems of Linear Inequalities	<b>MA I: Course 1:</b> <ul style="list-style-type: none"> <li>• 4.2.2: Solving Systems by Graphing</li> </ul>
<b>Chapter 7 Exponents</b>	
7-1 Zero and Negative Exponents	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 3.2.1: Writing Numbers Using Scientific Notation</li> </ul> <b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Working with Powers</li> </ul>
7-2 Scientific Notation	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 3.2.1: Writing Numbers Using Scientific Notation</li> <li>• 3.2.2: Comparing Numbers in Scientific Notation</li> <li>• 3.2.3: Writing Numbers between 0 &amp; 1 in Scientific Notation</li> </ul>
7-3 Multiplying Powers With the Same Base	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Working with Powers</li> </ul>
7-4 More Multiplication Properties of Exponents	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Working with Powers</li> </ul>
7-5 Division Properties of Exponents	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.1: Working with Powers</li> </ul>
<b>Chapter 8 Polynomials and Factoring</b>	
8-1 Adding and Subtracting Polynomials	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.2: Adding &amp; Subtracting Polynomial Expressions</li> </ul>
8-2 Multiplying and Factoring	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.3: Multiplying Polynomials</li> <li>• 2.2.1: Finding Common Factors</li> </ul>
8-3 Multiplying Binomials	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.3: Multiplying Polynomials</li> </ul>
8-4 Multiplying Special Cases	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.1.3: Multiplying Polynomials</li> </ul>
8-5 Factoring $x^2 + bx + c$	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.2.2: Factoring Quadratic Trinomials</li> </ul>
8-6 Factoring $ax^2 + bx + c$	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.2.2: Factoring Quadratic Trinomials</li> </ul>
8-7 Factoring Special Cases	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 2.2.3: Special Cases</li> </ul>

**Destination Math**  
**Aligned to**  
**Prentice Hall Algebra 1 (Florida)**  
**Grade 7-12**

<b>Chapter 9 Quadratic Functions and Equations</b>	
9-1 Quadratic Functions and Their Properties	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 3.1.1: Graphing Parabolas</li> <li>• 3.1.2: Analyzing Properties of Parabolas</li> <li>• 3.1.3: Solving Quadratic Equations by Graphing</li> </ul>
9-2 Quadratic Functions	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 3.1.1: Graphing Parabolas</li> <li>• 3.1.2: Analyzing Properties of Parabolas</li> <li>• 3.1.3: Solving Quadratic Equations by Graphing</li> </ul>
9-3 Solving Quadratic Equations	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 3.1.3: Solving Quadratic Equations by Graphing</li> <li>• 3.2.2: The Square Root Method &amp; Completing the Square</li> </ul>
9-4 Factoring to Solve Quadratic Equations	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 3.2.1: Factoring &amp; the Zero Product Theorem</li> </ul>
9-5 Completing the Square	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 3.2.2: The Square Root Method &amp; Completing the Square</li> </ul>
9-6 The Quadratic Function and the Discriminant	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 3.2.3: The Quadratic Formula</li> </ul>
<b>Chapter 10 Radical Expressions</b>	
10-1 Pythagorean Theorem	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 3.1.1: Exploring the Pythagorean Theorem</li> </ul>
10-2 Simplifying Radicals	<b>Course V:</b> <ul style="list-style-type: none"> <li>• 3.1.2: Investigating Squares &amp; Square Roots</li> </ul> <b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 1.1.2: Working with Radicals</li> </ul>
10-3 Operations With Radical Expressions	<b>MA I: Course 2:</b> <ul style="list-style-type: none"> <li>• 1.1.2: Working with Radicals</li> </ul>