

INNOVATION IN EDUCATION

Glencoe Math Connects

December 2010



DESTINATION MATH



HOUGHTON MIFFLIN
LEARNING TECHNOLOGY

Destination Math
Aligned to
Glencoe Math Connects Course 3
Grade 8

Glencoe Math Connects	Destination Math
Grade 8	
Chapter 1: Rational Numbers and Percent	
Lesson 1-1 A: Rational Numbers	Course IV: <ul style="list-style-type: none"> • 2.1.3: Exploring Repeating and Terminating Decimals Course V: <ul style="list-style-type: none"> • 4.1.2: Expressing Ratios as Equivalent Fractions & Decimals
Lesson 1-1 B: Add and Subtract Rational Numbers	Course IV: <ul style="list-style-type: none"> • 1.5.1: Adding with Like Denominators • 1.5.2: Adding with Unlike Denominators • 1.5.3: Solving Missing Value Problems when Adding Fractions • 1.6.1: Subtracting with Like Denominators • 1.6.2: Subtracting with Unlike Denominators • 1.6.3: Solving Missing Value Problems when Subtracting Fractions • 4.1.2: Adding with Absolute Value • 4.1.3: Subtracting with Absolute Value
Lesson 1-1 C: Multiply Rational Numbers	Course IV: <ul style="list-style-type: none"> • 1.3.1: Finding Products of Fractions, Whole Numbers, and Mixed Numbers • 1.3.2: Using the GCF in Finding Products • 1.3.3: Representing Multiplication • 4.2.1: Finding Products of Signed Numbers • 4.2.2: Representing the Multiplication of Signed Numbers
Lesson 1-1 D: Divide Rational Numbers	Course IV: <ul style="list-style-type: none"> • 1.4.1: Estimating Quotients of Fractions • 1.4.2: Using Multiplicative Inverses • 1.4.3: Solving Missing Value Problems when Dividing Fractions • 4.2.3: Finding Quotients Using Reciprocals
Lesson 1-2 B: Compare Rational Numbers	Course IV: <ul style="list-style-type: none"> • 3.1.2: Expressing Percents as Proper Fractions • 3.1.3: Expressing Percents greater than 100% as Improper Fractions • 3.2.1: Finding Percents of a Whole • 3.2.2: Expressing Ratios as Percents
Lesson 1-2 C: Algebra: The Percent Proportion and Equation	Course IV: <ul style="list-style-type: none"> • 3.2.3: Calculating the Whole from a Part and a Percent
Lesson 1-3 A: Discount, Markup, and Sales Tax	Course IV: <ul style="list-style-type: none"> • 3.3.1: Calculating Percent Increases • 3.3.2: Calculating Percent Decreases
Lesson 1-3 B: Financial Literacy: Interest	Course IV: <ul style="list-style-type: none"> • 3.3.3: Calculating Simple Interest
Lesson 1-3 D: Percent of Change	Course IV: <ul style="list-style-type: none"> • 3.3.1: Calculating Percent Increases • 3.3.2: Calculating Percent Decreases

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Chapter 2: Expressions and Functions	
Lesson 2-1 B: Variables and Expressions	Course V: <ul style="list-style-type: none"> • 1.1.1: Introducing Variables • 1.1.2: Identifying Components of Algebraic Expressions • 1.1.3: Replacing Variables in a Formula • Module: Essentials of Algebra Unit: Simple Equations Session: Using Variables to Express Relationships MAI: Course 1: <ul style="list-style-type: none"> • 1.3.1: Translating Words into Expressions
Lesson 2-1 C: Ordered Pairs and Relations	MAI: Course 1: <ul style="list-style-type: none"> • 2.1.1: Graphing Ordered Pairs • 2.2.3: Relations and Functions
Lesson 2-2 C: Analyze Graphs	MAI: Course 1: <ul style="list-style-type: none"> • 2.1.1: Graphing Ordered Pairs
Lesson 2-2 D: Translate Tables and Graphs into Equations	MAI: Course 1: <ul style="list-style-type: none"> • 2.1.1: Graphing Ordered Pairs
Lesson 2-3 A: Explore Relations and Functions	MA I: Course 1: <ul style="list-style-type: none"> • 2.2.3: Relations and Functions
Lesson 2-3 B: Functions	MA I: Course 1: <ul style="list-style-type: none"> • 2.1.1: Graphing Ordered Pairs • 2.2.3: Relations and Functions
Lesson 2-3 C: Linear Functions	MA I: Course 1: <ul style="list-style-type: none"> • 2.1.1: Graphing Ordered Pairs
Chapter 3: Linear Functions and Systems of Equations	
Lesson 3-1 C: Slope	MA I: Course 1: <ul style="list-style-type: none"> • 2.1.2: Defining Slope
Lesson 3-1 E: Direct Variation	Course V: <ul style="list-style-type: none"> • 4.3.1: Exploring & Solving Direct Variation Problems
Lesson 3-2 A: Slope-Intercept Form	MA I: Course 1: <ul style="list-style-type: none"> • 2.2.1: Exploring the Slope-Intercept Equation of a Line
Lesson 3-2 B: Graph Functions Using Intercepts	MA I: Course 1: <ul style="list-style-type: none"> • 2.1.3: Finding x- and y- Intercepts
Lesson 3-3 C: Solve Systems of Equations by Graphing	MA I: Course 1: <ul style="list-style-type: none"> • 3.1.1: Finding the Point of Intersection • 3.1.2: Graphing Parallel & Perpendicular Lines
Lesson 3-3 D: Solve Systems of Equations by Substitution	MA I: Course 1: <ul style="list-style-type: none"> • 3.2.1: Using Substitution to Eliminate a Variable

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Chapter 4: Equations and Inequalities	
Lesson 4-1 B: Write Equations	Course V: <ul style="list-style-type: none"> • 1.3.1: Using Variables to Express Relationships MAI: Course 1: <ul style="list-style-type: none"> • 1.1.1: Translating Words into Expressions
Lesson 4-1 C: Solve Addition and Subtraction Equations	Course V: <ul style="list-style-type: none"> • 1.3.3: Solving Simple Equations MAI: Course 1: <ul style="list-style-type: none"> • 1.1.2: Applying Properties of Real Numbers
Lesson 4-1 D: Solve Multiplication and Division Equations	MAI: Course 1: <ul style="list-style-type: none"> • 1.2.1: Applying Inverse Operations
Lesson 4-2 A: Explore Write Two-Step Equations	Course V: <ul style="list-style-type: none"> • 1.4.1: Writing Equations • 1.4.2: Simplifying Both Sides of an Equation • 1.4.3: Checking the Solution to an Equation
Lesson 4-2 B: Solve Two-Step Equations	Course V: <ul style="list-style-type: none"> • 1.4.2: Simplifying Both Sides of an Equation • 1.4.3: Checking the Solution to an Equation MAI: Course 1: <ul style="list-style-type: none"> • 1.2.1: Applying Inverse Operations • 1.4.3: Checking the Solution to an Equation
Lesson 4-2 C: Write Two-Step Equations	Course V: <ul style="list-style-type: none"> • 1.4.1: Writing Equations • 1.4.2: Simplifying Both Sides of an Equation • 1.4.3: Checking the Solution to an Equation MAI: Course 1: <ul style="list-style-type: none"> • 1.2.2: Transforming Equations using Multiple Operations
Lesson 4-3 A: Graph Inequalities	MA I: Course 1: <ul style="list-style-type: none"> • 4.1.2: Graphing Solutions on a Number Line
Lesson 4-3 B: Solve Inequalities by Addition or Subtraction	MA I: Course 1: <ul style="list-style-type: none"> • 4.1.1: Applying Inverse Operations
Lesson 4-3 C: Solve Inequalities by Multiplication or Division	MA I: Course 1: <ul style="list-style-type: none"> • 4.1.1: Applying Inverse Operations
Lesson 4-4 A: Solve Two-Step Inequalities	MA I: Course 1: <ul style="list-style-type: none"> • 4.1.1: Applying Inverse Operations • 4.1.2: Graphing Solutions on a Number Line
Lesson 4-4 B: Compound Inequalities	MA I: Course 1: <ul style="list-style-type: none"> • 4.1.3: Solving Absolute Value Inequalities

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Chapter 5: Operations on Real Numbers	
Lesson 5-1 A: Powers and Exponents	Course IV: <ul style="list-style-type: none"> • 4.3.1: Simplifying Expressions Course V: <ul style="list-style-type: none"> • 1.2.2: Combining Like Terms MA I: Course 1: <ul style="list-style-type: none"> • 1.1.3: Evaluating and Simplifying Expressions
Lesson 5-1 B: Multiply and Divide Monomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.1: Working with Powers • 2.1.3: Multiplying Polynomials
Lesson 5-1 C: Powers of Monomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.1: Working with Powers
Lesson 5-2 A: Negative Exponents	Course V: <ul style="list-style-type: none"> • 3.2.3: Writing Numbers between 0 & 1 in Scientific Notation MA I: Course 2: <ul style="list-style-type: none"> • 2.1.1: Working with Powers
Lesson 5-2 B: Scientific Notation	Course V: <ul style="list-style-type: none"> • 3.2.1: Writing Numbers Using Scientific Notation • 3.2.2: Comparing Numbers in Scientific Notation • 3.2.3: Writing Numbers between 0 & 1 in Scientific Notation
Lesson 5-2 C: Compute with Scientific Notation	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.3: Multiplying Polynomials
Lesson 5-3 A: Square Roots	Course V: <ul style="list-style-type: none"> • 3.1.2: Investigating Squares & Square Roots
Lesson 5-3 B: Explore Roots of Non-Perfect Squares	Course V: <ul style="list-style-type: none"> • 3.1.3: Defining Irrational Numbers
Lesson 5-3 C: Estimate Square Roots	Course V: <ul style="list-style-type: none"> • 3.1.3: Defining Irrational Numbers
Lesson 5-3 D: Compare Real Numbers	Course V: <ul style="list-style-type: none"> • 3.1.3: Defining Irrational Numbers
Chapter 6: Angles and Lines	
Lesson 6-1 A: Explore Angle Measure	Course V: <ul style="list-style-type: none"> • 2.1.1: Naming and Measuring Angles
Lesson 6-1 B: Classify Angles	Course V: <ul style="list-style-type: none"> • 2.1.1: Naming and Measuring Angles • 2.1.2: Defining Complementary & Supplementary Angles • 2.1.3: Recognizing Congruent Angles
Lesson 6-1 C: Complementary and Supplementary Angles	Course V: <ul style="list-style-type: none"> • 2.1.1: Naming and Measuring Angles • 2.1.2: Defining Complementary & Supplementary Angles • 2.1.3: Recognizing Congruent Angles
Lesson 6-2 A: Explore Parallel Lines	Course V: <ul style="list-style-type: none"> • 2.1.3: Recognizing Congruent Angles
Lesson 6-2 B: Lines	Course V: <ul style="list-style-type: none"> • 2.1.3: Recognizing Congruent Angles

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Lesson 6-3 A: Explore Triangles	Course III: <ul style="list-style-type: none"> • 5.1.3: Triangles
Lesson 6-3 B: Triangles	Course III: <ul style="list-style-type: none"> • 5.1.3: Triangles Course V: <ul style="list-style-type: none"> • 2.2.1: Classifying Triangles by Sides • 2.2.3: Classifying Triangles by Angles
Lesson 6-3 C: Explore Quadrilaterals	Course III: <ul style="list-style-type: none"> • 5.1.4: Parallelograms and Trapezoids
Lesson 6-3 D: Quadrilaterals	Course III: <ul style="list-style-type: none"> • 5.1.4: Parallelograms and Trapezoids
Chapter 7: Similar Triangles and the Pythagorean Theorem	
Lesson 7-1 B: Similar Polygons	Course V: <ul style="list-style-type: none"> • 4.4.1: Defining Similarity
Lesson 7-1 C: Extend Similar Triangles	Course V: <ul style="list-style-type: none"> • 4.4.1: Defining Similarity • 4.4.2: Identifying Equivalent Ratios
Lesson 7-1 D: Indirect Measurement	Course V: <ul style="list-style-type: none"> • 4.4.1: Defining Similarity • 4.4.2: Identifying Equivalent Ratios • 4.4.3: Setting up & Solving Proportions in Similar Polygons
Lesson 7-2 B: The Pythagorean Theorem	Course V: <ul style="list-style-type: none"> • 3.1.1: Exploring the Pythagorean Theorem
Lesson 7-2 C: Use the Pythagorean Theorem	Course V: <ul style="list-style-type: none"> • 3.1.1: Exploring the Pythagorean Theorem
Chapter 8: Data Analysis	
Lesson 8-1 A: Measures of Central Tendency	Course V: <ul style="list-style-type: none"> • 5.2.1: Defining the Mean & Median • 5.2.2: Defining the Mode • 5.2.3: Calculating the Mean, Median, & Mode
Lesson 8-2 A: Measures of Variation	MA I: Course 2: <ul style="list-style-type: none"> • 5.1.1: Stem-&-Leaf Plots & Box Plots
Lesson 8-2 B: Box-and-Whisker Plots	MA I: Course 2: <ul style="list-style-type: none"> • 5.1.1: Stem-&-Leaf Plots & Box Plots
Lesson 8-3 B: Explore Scatter Plots	MA I: Course 2: <ul style="list-style-type: none"> • 5.1.2: Scatter Plots & Linear Best-Fit Graphs
Lesson 8-3 C: Scatter Plots	MA I: Course 2: <ul style="list-style-type: none"> • 5.1.2: Scatter Plots & Linear Best-Fit Graphs
Lesson 8-3 D: Explore Lines of Best Fit	MA I: Course 2: <ul style="list-style-type: none"> • 5.1.2: Scatter Plots & Linear Best-Fit Graphs
Lesson 8-3 E: Lines of Best Fit	MA I: Course 2: <ul style="list-style-type: none"> • 5.1.2: Scatter Plots & Linear Best-Fit Graphs
Lesson 8-3 G: Select an Appropriate Display	Course V: <ul style="list-style-type: none"> • 5.1.1: Exploring Line Graphs • 5.1.2: Exploring Bar Graphs • 5.1.3: Interpreting Pie Charts • 5.3.1: Creating & Interpreting a Frequency Table • 5.3.2: Defining a Histogram • 5.3.3: Exploring Cumulative Frequency Graphs

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Chapter 9: Units of Measure	
Lesson 9-1 A: Literal Equations	Course V: <ul style="list-style-type: none"> • 1.2.1: Representing the Dimensions & Area of a Rectangle • 1.5.1: Identifying the Variables in a Given Formula • 1.5.2: Rewriting a Formula in Terms of a Different Variable • 1.5.3: Substituting Values & Solving an Equation
Lesson 9-1 B: Convert Temperatures	Course V: <ul style="list-style-type: none"> • 1.5.3: Substituting Values & Solving an Equation
Lesson 9-2 A: Convert Length, Weight/Mass, Capacity, and Time	Course V: <ul style="list-style-type: none"> • 4.1.3: Forming Ratios between Unlike Quantities • 4.2.3: Applying the Means/Extremes Property
Lesson 9-2 B: Convert Rates	Course V: <ul style="list-style-type: none"> • 4.1.3: Forming Ratios between Unlike Quantities • 4.2.3: Applying the Means/Extremes Property
Chapter 10: Measurement: Area and Volume	
Lesson 10-2 B: Volume of Prisms and Cylinders	Course V: <ul style="list-style-type: none"> • 1.1.1: Introducing Variables • 1.1.3: Replacing Variables in a Formula • 2.3.1: Calculating the Volume of a Right Triangular Prism • 2.3.2: Calculating the Surface Area of a Right Triangular Prism • 2.3.3: Calculating the Volume & Surface Area of a Right Cylinder
Lesson 10-3 A: Explore Surface Area of Cylinders	Course V: <ul style="list-style-type: none"> • 2.3.3: Calculating the Volume & Surface Area of a Right Cylinder
Lesson 10-3 B: Surface Area of Prisms and Cylinders	Course V: <ul style="list-style-type: none"> • 2.3.2: Calculating the Surface Area of a Right Triangular Prism • 2.3.3: Calculating the Volume & Surface Area of a Right Cylinder
Chapter 11: Properties and Multi-Step Equations and Inequalities	
Lesson 11-1 A: Properties	MA I: Course 1: <ul style="list-style-type: none"> • 1.1.2: Applying Properties of Real Numbers
Lesson 11-1 B: The Distributive Property	Course IV: <ul style="list-style-type: none"> • 4.3.2: Introducing the Distributive Property • 4.3.3: Using Grouping Symbols Course V: <ul style="list-style-type: none"> • 1.2.2: Combining Like Terms
Lesson 11-1 C: Simplify Algebraic Expressions	Course IV: <ul style="list-style-type: none"> • 4.3.1: Simplifying Expressions • 4.3.2: Introducing the Distributive Property • 4.3.3: Using Grouping Symbols Course V: <ul style="list-style-type: none"> • 1.3.2: Simplifying Algebraic Expressions MA I: Course 1: <ul style="list-style-type: none"> • 1.1.3: Evaluating and Simplifying Expressions

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Lesson 11-2 A: Explore Equations with Variables on Each Side	Course V: <ul style="list-style-type: none"> • 1.4.1: Writing Equations
Lesson 11-2 B: Solve Equations with Variables on Each Side	Course V: <ul style="list-style-type: none"> • 1.4.2: Simplifying Both Sides of an Equation • 1.4.3: Checking the Solution to an Equation
Lesson 11-2 C: Solve Multi-Step Equations	MA I: Course 1: <ul style="list-style-type: none"> • 1.2.1: Applying Inverse Operations • 1.2.2: Transforming Equations using Multiple Operations
Lesson 11-2 D: Solve Multi-Step Inequalities	MA I: Course 1: <ul style="list-style-type: none"> • 4.1.1: Applying Inverse Operations
Chapter 12: Nonlinear Functions and Polynomials	
Lesson 12-1 A: Graph Quadratic Functions	MA I: Course 2: <ul style="list-style-type: none"> • 3.1.1: Graphing Parabolas • 3.1.3: Solving Quadratic Equations by Graphing
Lesson 12-2 A: Polynomials	Course V: <ul style="list-style-type: none"> • 1.2.2: Combining Like Terms MA I: Course 2: <ul style="list-style-type: none"> • 2.1.1: Working with Powers
Lesson 12-2 B: Add Polynomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.2: Adding & Subtracting Polynomial Expressions
Lesson 12-2 C: Subtract Polynomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.2: Adding & Subtracting Polynomial Expressions
Lesson 12-2 D: Multiply a Binomial by a Monomial	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.3: Multiplying Polynomials
Lesson 12-2 E: Multiply Polynomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.1.3: Multiplying Polynomials
Lesson 12-3 A: Explore Factors of Polynomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.2.1: Finding Common Factors
Lesson 12-3 B: Use the GCF to Factor Polynomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.2.1: Finding Common Factors
Lesson 12-3 C: Explore Factors of Trinomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.2.2: Factoring Quadratic Trinomials
Lesson 12-3 D: Factor Trinomials	MA I: Course 2: <ul style="list-style-type: none"> • 2.2.2: Factoring Quadratic Trinomials • 2.2.3: Special Cases