

## Math Triumphs, Grade 6

### Correlated to *Glencoe Math*, Course 1

*Math Triumphs*, Grade 6 provides the prerequisite concepts and skills necessary for success with the *Glencoe Math*, Course 1 and the Common Core State Standards.

<b>Math Triumphs, Grade 6</b>	<b>Targeted Prerequisite Skills and Concepts</b>	<b>Preparation for CCSS, Grade 6</b>	<b>Preparation for <i>Glencoe Math</i>, Course 1</b>
<b>Chapter 1 Fractions</b>	Understand parts of whole, parts of a set.	6.RP.1, 6.RP.2, 6.RP.3, 6.RP.3a, 6.RP.3b, 6.RP.3c, 6.RP.3d, 6.NS.1, 6.NS.4, 6.NS.7a, 6.NS.7b	<b>Chapter 1</b> Ratios and Rates <b>Chapter 2</b> Fractions, Decimals, and Percents <b>Chapter 4</b> Multiply and Divide Fractions <b>Chapter 5</b> Integers and the Coordinate Plane
	Recognize and name equivalent fractions.		
	Compare and order fractions.		
<b>Chapter 2 Operations with Fractions</b>	Simplify fractions.	6.RP.1, 6.RP.2, 6.RP.3, 6.RP.3a, 6.RP.3b, 6.RP.3c, 6.RP.3d, 6.NS.1, 6.NS.4	<b>Chapter 1</b> Ratios and Rates <b>Chapter 2</b> Fractions, Decimals, and Percents <b>Chapter 4</b> Multiply and Divide Fractions
	Multiply fractions.		
	Divide fractions.		
<b>Chapter 3 Decimals</b>	Understand place value through thousandths.	6.NS.1, 6.NS.2, 6.NS.3, 6.NS.7a, 6.NS.7b	<b>Chapter 2</b> Fractions, Decimals, and Percents <b>Chapter 3</b> Compute with Multi-Digit Numbers <b>Chapter 5</b> Integers and the Coordinate Plane
	Estimate decimals.		
	Compare and order decimals.		
<b>Chapter 4 Operations with Decimals</b>	Add and subtract decimals.	6.NS.1, 6.NS.2, 6.NS.3	<b>Chapter 2</b> Fractions, Decimals, and Percents <b>Chapter 3</b> Compute with Multi-Digit Numbers
	Multiply decimals.		
	Divide decimals.		
<b>Chapter 5 Multiplication</b>	Understand basic multiplication and repeated addition.	6.NS.1, 6.NS.2, 6.NS.3, 6.EE.1, 6.EE.2, 6.EE.5, 6.EE.7, 6.G.1, 6.G.2	<b>Chapter 3</b> Compute with Multi-Digit Numbers <b>Chapter 4</b> Multiply and Divide Fractions <b>Chapter 6</b> Expressions <b>Chapter 7</b> Equations <b>Chapter 8</b> Functions and Inequalities <b>Chapter 9</b> Area <b>Chapter 10</b> Volume
	Use patterns and sequences.		
	Multiply whole numbers.		
<b>Chapter 6 Division</b>	Understand basic division and repeated subtraction.	6.NS.1, 6.NS.2, 6.NS.3, 6.EE.1, 6.EE.2, 6.EE.5, 6.EE.7	<b>Chapter 3</b> Compute with Multi-Digit Numbers <b>Chapter 4</b> Multiply and Divide Fractions <b>Chapter 6</b> Expressions <b>Chapter 7</b> Equations <b>Chapter 8</b> Functions and Inequalities
	Use patterns and sequences.		
	Divide whole numbers.		
<b>Chapter 7 Ratios, Rates, and Unit Rates</b>	Recognize ratios as fractions.	6.RP.1, 6.RP.2, 6.RP.3, 6.RP.3a, 6.RP.3b, 6.RP.3c, 6.RP.3d, 6.NS.1, 6.NS.4,	<b>Chapter 1</b> Ratios and Rates <b>Chapter 2</b> Fractions, Decimals, and Percents
	Calculate rates and unit rates.		
	Represent probability as a ratio.		
<b>Chapter 8 Properties</b>	Use the Properties of Addition and Multiplication to solve equations.	6.EE.3, 6.EE.4, 6.EE.5, 6.EE.6, 6.EE.7, 6.EE.8	<b>Chapter 7</b> Equations <b>Chapter 8</b> Functions and Inequalities
<b>Chapter 9 Variable and</b>	Evaluate algebraic equations.	6.EE.1, 6.EE.2, 6.EE.3, 6.EE.4, 6.EE.5, 6.EE.6,	<b>Chapter 6</b> Expressions <b>Chapter 7</b> Equations

<b>Expressions</b>		6.EE.7, 6.EE.8, 6.G.1, 6.G.2	<b>Chapter 8</b> Functions and Inequalities <b>Chapter 9</b> Area <b>Chapter 10</b> Volume
<b>Chapter 10 Formulas</b>	Solve equations.	6.G.1, 6.G.2	<b>Chapter 9</b> Area <b>Chapter 10</b> Volume
	Solve for one variable in common formulas.		

## Math Triumphs, Grade 7

### Correlated to *Glencoe Math*, Course 2

*Math Triumphs*, Grade 7 provides the prerequisite concepts and skills necessary for success with the *Glencoe Math*, Course 2 and the Common Core State Standards.

<b>Math Triumphs, Grade 7</b>	<b>Targeted Prerequisite Skills and Concepts</b>	<b>Preparation for CCSS, Grade 7</b>	<b>Preparation for <i>Glencoe Math</i>, Course 2</b>
<b>Chapter 1 Fractions</b>	Simplify fractions.	7.RP.1, 7.RP.2a, 7.RP.3, 7.NS.1, 7.NS.1d, 7.NS.2, 7.NS.2c, 7.NS.2d, 7.NS.3	<b>Chapter 1</b> Ratios and Proportional Reasoning <b>Chapter 2</b> Percents <b>Chapter 3</b> Integers <b>Chapter 4</b> Rational Numbers
	Compare and order fractions.		
<b>Chapter 2 Ratios, Rates, and Proportional Relationships</b>	Recognize ratios as fractions.	7.RP.1, 7.RP.2, 7.RP.2a, 7.RP.2b, 7.RP.2c, 7.RP.2d, 7.RP.3, 7.G.1, 7.SP.5, 7.SP.6, 7.SP.7, 7.SP.8, 7.SP.8a	<b>Chapter 1</b> Ratios and Proportional Reasoning <b>Chapter 2</b> Percents <b>Chapter 4</b> Rational Numbers <b>Chapter 7</b> Geometric Figures <b>Chapter 9</b> Probability <b>Chapter 10</b> Statistics
	Calculate rates and unit rates.		
	Represent probability as a ratio.		
	Use proportional reasoning to solve problems.		
<b>Chapter 3 Percents</b>	Interpret percents.	7.RP.3, 7.NS.1, 7.NS.1d, 7.NS.2, 7.NS.2c, 7.NS.2d, 7.NS.3, 7.SP.5, 7.SP.6, 7.SP.7, 7.SP.8, 7.SP.8a	<b>Chapter 1</b> Ratios and Proportional Reasoning <b>Chapter 2</b> Percents <b>Chapter 4</b> Rational Numbers <b>Chapter 9</b> Probability <b>Chapter 10</b> Statistics
	Convert between fractions, percents, and decimals.		
	Calculate using percents.		
<b>Chapter 4 Measurement</b>	Measure the length of objects using metric and customary measurements.	7.G.4, 7.G.5, 7.G.6	<b>Chapter 4</b> Rational Numbers <b>Chapter 7</b> Geometric Figures <b>Chapter 8</b> Measure Figures
	Convert within the metric system of measurement.		
	Convert within the customary system of measurement.		
<b>Chapter 5 Two-Dimensional Figures</b>	Identify and draw triangles and quadrilaterals.	7.G.1, 7.G.2, 7.G.3, 7.G.4, 7.G.5, 7.G.6	<b>Chapter 7</b> Geometric Figures <b>Chapter 8</b> Measure Figures
	Find the area of various polygons.		
<b>Chapter 6 Three-Dimensional Figures</b>	Identify characteristics of three-dimensional figures.	7.G.3, 7.G.4, 7.G.5, 7.G.6	<b>Chapter 7</b> Geometric Figures <b>Chapter 8</b> Measure Figures
	Find the surface area of a rectangular solid.		
	Find the volume of a rectangular solid.		
<b>Chapter 7 Whole Numbers and Integers</b>	Read and write whole numbers in the millions.	7.NS.1, 7.NS.1a, 7.NS.1b, 7.NS.1c, 7.NS.1d	<b>Chapter 3</b> Integers <b>Chapter 4</b> Rational Numbers <b>Chapter 5</b> Expressions <b>Chapter 6</b> Equations and Inequalities
	Round and compare whole numbers in the millions.		
	Use models to understand integer values.		

<b>Chapter 8 Integer Operations</b>	Add and subtract integers.	7.NS.1, 7.NS.1a, 7.NS.1b, 7.NS.1c, 7.NS.1d, 7.NS.2, 7.NS.2a, 7.NS.2b, 7.NS.2c, 7.NS.2d, 7.NS.3, 7.EE.3, 7.EE.4, 7.EE.4a, 7.EE.4b	<b>Chapter 3</b> Integers <b>Chapter 4</b> Rational Numbers <b>Chapter 5</b> Expressions <b>Chapter 6</b> Equations and Inequalities
	Multiply and divide integers.		
<b>Chapter 9 Variables and Expressions</b>	Evaluate algebraic expressions.	7.EE.1, 7.EE.2, 7.EE.3, 7.EE.4, 7.EE.4a, 7.EE.4b	<b>Chapter 5</b> Expressions <b>Chapter 6</b> Equations and Inequalities
<b>Chapter 10 Equations</b>	Solve linear equations.	7.EE.3, 7.EE.4, 7.EE.4a, 7.EE.4b	<b>Chapter 5</b> Expressions <b>Chapter 6</b> Equations and Inequalities

## Math Triumphs, Grade 8 Correlated to *Glencoe Math*, Course 3

*Math Triumphs*, Grade 8 provides the prerequisite concepts and skills necessary for success with the *Glencoe Math*, Course 3 and the Common Core State Standards.

<b>Math Triumphs, Grade 8</b>	<b>Targeted Prerequisite Skills and Concepts</b>	<b>Preparation for CCSS, Grade 8</b>	<b>Preparation for <i>Glencoe Math</i>, Course 3</b>
<b>Chapter 1 Integers</b>	Use models to understand integer values.	8.EE.1, 8.EE.3, 8.EE.4, 8.EE.7, 8.EE.7a, 8.EE.7b, 8.EE.8, 8.G.3	<b>Chapter 2</b> Equations in One Variable <b>Chapter 3</b> Equations in Two Variables <b>Chapter 6</b> Transformations
	Calculate integers using operations.		
	Multiply and divide integers.		
<b>Chapter 2 Patterns and Graphs</b>	Solve simple problems involving functional relationships.	8.EE.5, 8.EE.6, 8.EE.8, 8.EE.8a, 8.EE.8b, 8.EE.8c, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5, 8.G.1, 8.G.2, 8.G.3, 8.G.8, 8.SP.1, 8.SP.2, 8.SP.3	<b>Chapter 3</b> Equations in Two Variables <b>Chapter 4</b> Functions <b>Chapter 5</b> Triangles and the Pythagorean Theorem <b>Chapter 6</b> Transformations <b>Chapter 7</b> Congruence and Similarity <b>Chapter 9</b> Scatter Plots and Data Analysis
	Identify and graph ordered pairs on a coordinate grid.		
	Graph linear and nonlinear functions.		
<b>Chapter 3 Expressions and Equations</b>	Use the order of operations to evaluate expressions and solve equations with integer solutions.	8.EE.1, 8.EE.3, 8.EE.4, 8.EE.7, 8.EE.7a, 8.EE.7b, 8.EE.8a, 8.EE.8b, 8.EE.8c, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5, 8.SP.1, 8.SP.2, 8.SP.3	<b>Chapter 2</b> Equations in One Variable <b>Chapter 3</b> Equations in Two Variables <b>Chapter 4</b> Functions <b>Chapter 9</b> Scatter Plots and Data Analysis
	Use variables in simple expressions and equations.		
	Solve simple linear equations for one variable in terms of another.		
<b>Chapter 4 Angle Measures</b>	Measure, identify, and draw angles and triangles.	8.G.1, 8.G.2, 8.G.3, 8.G.4, 8.G.5	<b>Chapter 5</b> Triangles and the Pythagorean Theorem <b>Chapter 6</b> Transformations <b>Chapter 7</b> Congruence and Similarity
	Add measures of angles and know the sum of the angles in a triangle and a straight angle.		
	Identify the measure of an angle, using knowledge about transversals and parallel lines.		
<b>Chapter 5 Ratios, Rates, and Similarity</b>	Determine unit costs and understand ratios and rates.	8.EE.5, 8.EE.6, 8.EE.8a, 8.EE.8b, 8.EE.8c, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5, 8.G.3, 8.G.4	<b>Chapter 3</b> Equations in Two Variables <b>Chapter 4</b> Functions <b>Chapter 7</b> Congruence and Similarity
	Use proportions to compare sets of numerical data.		
	Use proportions to compare figures and solve problems.		
<b>Chapter 6 Squares, Square Roots, and the Pythagorean</b>	Find square numbers and positive square roots of positive integers.	8.NS.1, 8.NS.2, 8.EE.1, 8.EE.2, 8.EE.5, 8.EE.6, 8.EE.8a,	<b>Chapter 1</b> Real Numbers <b>Chapter 3</b> Equations in Two Variables <b>Chapter 4</b> Functions
	Know and use the		

<b>Theorem</b>	Pythagorean Theorem to find the lengths of unknown sides of a right triangle.	8.EE.8b, 8.EE.8c, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5, 8.G.6, 8.G.7, 8.G.8	<b>Chapter 5</b> Triangles and the Pythagorean Theorem
	Graph linear functions and determine the slope of a line.		
<b>Chapter 7</b> <b>One-Variable Data</b>	Sort and classify data and find the measures of central tendency.	8.SP.1, 8.SP.2, 8.SP.3, 8.SP.4	<b>Chapter 9</b> Scatter Plots and Data Analysis
	Interpret and create bar graphs.		
	Interpret and create line graphs.		
<b>Chapter 8</b> <b>Percents and Circle Graphs</b>	Calculate percentages for data in a set.	8.SP.1, 8.SP.2, 8.SP.3, 8.SP.4	<b>Chapter 9</b> Scatter Plots and Data Analysis
	Interpret and create circle graphs.		
<b>Chapter 9</b> <b>Two-Variable Data</b>	Identify and describe the relationship between two variables within an equation or on a graph.	8.EE.8, 8.EE.8a, 8.EE.8b, 8.EE.8c, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5, 8.SP.1, 8.SP.2, 8.SP.3	<b>Chapter 3</b> Equations in Two Variables <b>Chapter 4</b> Functions <b>Chapter 9</b> Scatter Plots and Data Analysis
	Interpret and make predictions using data in a scatter plot.		