

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 1: Real Numbers, Exponents, and Scientific Notation

GO Math! Lessons		TenMarks Resources					Assessments
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	
<b>Module 1: Real Numbers</b>							
<b>Lesson 1</b>	<b>Rational and Irrational Numbers</b>	<b>Identifying Rational and Irrational Numbers</b>	<b>Classifying and Representing Rational and Irrational Numbers</b>	Converting Fractions to Repeating Decimals	Identifying and Writing Rational and Irrational Numbers		SLA 8.EE.2
		<b>Classifying Numbers</b>	Converting Between Fractions and Decimals	Irrational Numbers	Identifying and Writing Rational and Irrational Numbers		SLA 8.NS.1
			Converting Repeating Decimals to Fractions	Classifying Numbers			
			Finding a Pattern: Writing Decimals as Fractions				
			Understanding Rational and Irrational Numbers				
			Identifying Rational and Irrational Numbers				
			<b>Approximating and Comparing Irrational Numbers</b>				
			Approximating Irrational Numbers to the Nearest Whole Number				
			Approximating Irrational Numbers to the Nearest Tenth				
<b>Lesson 2</b>		<b>Sets of Real Numbers</b>					
<b>Lesson 3</b>	<b>Ordering Real Numbers</b>	<b>Approximating Irrational Numbers</b>	<b>Approximating and Comparing Irrational Numbers</b>	Approximating Irrational Numbers	Approximating Irrational Numbers		SLA 8.NS.2
			Plotting and Comparing Rational and Irrational Numbers on a Number Line				
			Simplifying and Approximating Expressions That Contain Irrational Numbers				
			Comparing Irrational Number Expressions				
			Ordering Rational and Irrational Number Expressions on a Number Line				
<b>Module 2: Exponents and Scientific Notation</b>							
<b>Lesson 1</b>	<b>Integer Exponents</b>	<b>Identifying Exponential Expressions</b>	<b>Operations with Integer Exponents</b>	Working with Exponents	Identifying Equivalent Exponents	Use Laws of Exponents	SLA 8.EE.1
		<b>Simplifying Exponential Expressions</b>	Multiplying Exponents	Extensions of Exponent Rules	Simplifying Expressions Involving Exponents		
			Raising a Power to a Power	Bases and Powers	Simplifying Exponential Expressions		
			Dividing Exponents		Identifying Exponential Growth Within a Context		

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GO Math! Lessons		TenMarks Resources						
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
			Understanding the Zero Power and Negative Exponents  Practice with Negative Exponents and the Zeroth Power					
Lesson 2	Scientific Notation with Positive Powers of 10		<b>Numbers in Scientific Notation</b>  Understanding Magnitude  Introduction to Scientific Notation  Writing Large Numbers in Scientific Notation: Practice					
Lesson 3	Scientific Notation with Negative Powers of 10	Expressing Numbers in Scientific Notation	<b>Numbers in Scientific Notation</b>  Writing Small Numbers in Scientific Notation  Converting between Scientific Notation and Standard Notation  Rewriting Numbers in Scientific Notation	Writing Large Numbers in Scientific Notation  Writing Small Numbers in Scientific Notation	Understanding and Expressing Numbers in Scientific Notation	Write Numbers in Scientific and Standard Notation		
Lesson 4	Operations with Scientific Notation	Operations with Scientific Notation	<b>Operations with Numbers in Scientific Notation</b>  Adding Numbers in Scientific Notation  Subtracting Numbers in Scientific Notation  Multiplying and Dividing Numbers in Scientific Notation  Solving Word Problems Using Numbers in Scientific Notation  Daunting Distances: Multiplying Numbers in Scientific Notation  How Long Are My Genes?	Multiplying & Dividing Numbers in Scientific Notation  Adding & Subtracting Numbers in Scientific Notation	Operations with Scientific Notation  Understanding Calculator Notation  Understanding and Expressing Numbers in Scientific Notation			

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 2: Proportional Reasoning and Nonproportional Relationships and Functions

GO Math! Lessons		TenMarks Resources						
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<b>Module 3: Proportional Relationships</b>								
Lesson 1	Representing Proportional Relationships							
Lesson 2	Rate of Change and Slope		<b>Slope and the Equation of a Line</b>  The Slope Formula  <b>Understanding and Interpreting Functions</b>  Identifying the Rate of Change and Initial Value Using Two Points and a Graph					
Lesson 3	Interpreting the Unit Rate as Slope	<b>Identifying Graphs that Display Linear Relationships</b>	<b>Identifying and Interpreting Slope of a Proportional Relationship</b>  Understanding Unit Rate as Slope  Comparing the Slope of a Graph and a Table, Within a Context  Comparing the Slope of a Graph and a Table	Identifying Proportional Relationships	Graphing Functions and Identifying Equations			
<b>Module 4: Nonproportional Relationships</b>								
Lesson 1	Representing Linear Nonproportional Relationships	<b>Identifying Graphs of Functions</b>  <b>Understanding Linear Functions</b>	<b>Identifying Linear Functions</b>  Identifying the Rate of Change and the y-intercept of a Linear Function	Graphing Linear Functions in the Coordinate Plane  Slope-Intercept Form	Graphing Functions and Identifying Equations			
Lesson 2	Determining Slope and y-intercept		<b>Understanding and Interpreting Functions</b>  Identifying the Rate of Change and Initial Value Using an Equation and Table  Identifying Equations					
Lesson 3	Graphing Linear Nonproportional Relationships using Slope and y-intercept							
Lesson 4	Proportional and Nonproportional Situations							
<b>Module 5: Writing Linear Equations</b>								
Lesson 1	Writing Linear Equations from Situations and Graphs	<b>Identifying Linear Equations</b>  <b>Rate of Change</b>	<b>Understanding and Interpreting Functions</b>  Writing an Equation of a Line Using a Graph within a Context	Slope-Intercept Form  Linear Equations & Word Problems	Graphing Functions and Identifying Equations  Identifying Rate of Change			SLA 8.F.4

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 2: Proportional Reasoning and Nonproportional Relationships and Functions

GO Math! Lessons		TenMarks Resources						
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
			Writing and Graphing an Equation Given a Word Problem	Rate of Change				
Lesson 2	Writing Linear Equations from a Table		Comparing Linear and Non-Linear Functions Using Tables					
Lesson 3	Linear Relationships and Bivariate Data							
Module 6: Functions								
Lesson 1	Identifying and Representing Functions		<b>Introduction to Functions: Inputs and Outputs</b>  Using Rules to Understand Input and Output  <b>Comparing Functions</b>  Representing a Function in Multiple Ways				How Do You Function?	
Lesson 2	Describing Functions							
Lesson 3	Comparing Functions	Comparing Functions	Comparing Functions	Rate of Change	Comparing Functions			SLA 8.F.2
			Comparing Graphs of Functions					
			Comparing a Table and Graph					
			Comparing an Equation and Graph					
			Comparing an Equation and Table					
Lesson 4	Analyzing Graphs	Describing a Graph	<b>Describing and Identifying Functions Using Qualitative Attributes</b>  Describing the Graph of a Nonlinear Function  Comparing Graphs of Nonlinear Functions  Describing Intervals within a Context  Comparing Intervals within a Context	Describing a Graph	Describing a Graph		Stories from the Deep	SLA 8.F.5

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 3: Solving Equations and Systems of Equations

GO Math! Lessons		TenMarks Resources						
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<b>Module 7: Solving Linear Equations</b>								
Lesson 1	Equations with the Variable on Both Sides		<b>Solving Equations in One Variable</b>					
			Solving Equations with Variables on Both Sides					
Lesson 2	Equations with Rational Numbers							
Lesson 3	Equations with the Distributive Property		<b>Solving Equations in One Variable</b>					
			Solving Multi-Step Equations					
Lesson 4	Equations with Many Solutions or No Solution	<b>Identifying Solutions to Linear Equations</b>	<b>Solving Equations in One Variable</b>	Solving Linear Equations	Identifying Solutions to Linear Equations			SLA 8.EE.7
			Solving Equations with No Solution					
			Solving Equations with Infinitely Many Solutions					
			Identifying Equations with One Solution, No Solution, and Infinitely Many Solutions					
<b>Module 8: Solving Systems of Linear Equations</b>								
Lesson 1	Solving Systems of Linear Equations by Graphing		<b>Solving Systems of Equations</b>				<b>Just Keep Swimming</b>	
			Solving a System of Equations Graphically					
			One Solution, No Solution, Many Solutions					
			The Limitations of Solving Systems Graphically					
Lesson 2	Solving Systems by Substitution	<b>Investigating Systems of Equations Graphically and Algebraically</b>	<b>Solving Systems of Equations</b>	Solving a System of Equations Using Elimination	Solving Systems of Equations Using Substitution			
			Introduction to Substitution	Solving Systems of Linear Equations by Graphing	Solving Systems of Linear Equations Graphically			
			Practice with Substitution					
Lesson 3	Solving Systems by Elimination		<b>Solving Systems of Equations</b>					
			Introduction to Elimination					
Lesson 4	Solving Systems by Elimination with Multiplication		<b>Solving Systems of Equations</b>			Solve Systems of Linear Equations - Standard Form		

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 3: Solving Equations and Systems of Equations

GO Math! Lessons		TenMarks Resources						
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
			Elimination Practice					
<b>Lesson 5</b>	<b>Solving Special Systems</b>	<b>Solving Word Problems Involving Systems of Equations</b>	<b>Solving Systems of Equations</b>	Systems of Equations & Word Problems	Solving Word Problems Given Ordered Pairs			SLA 8.EE.8
			Real Life Systems: Comparing Rates		Solving Word Problems Involving Systems of Equations			
			Real Life Systems: Bakery					

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 4: Transformational Geometry

GO Math! Lessons		TenMarks Resources					
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<b>Module 9: Transformations and Congruence</b>							
<b>Lesson 1</b>	<b>Properties of Translations</b>	<b>Effects of Translation</b>	<b>Understanding the Effects of Translations, Reflections, Rotations, and Dilations</b>  Identifying the Distance and Direction of a Translation  Identifying Coordinates of a Translated Image	Translations on the Coordinate Plane	Effects of Translations		
<b>Lesson 2</b>	<b>Properties of Reflections</b>	<b>Effects of Reflection</b>	<b>Understanding the Effects of Translations, Reflections, Rotations, and Dilations</b>  Identifying Coordinates of a Reflected Image	Reflections on the Coordinate Plane	Effects of Reflection		
<b>Lesson 3</b>	<b>Properties of Rotations</b>	<b>Effects of Rotation</b>	<b>Understanding the Effects of Translations, Reflections, Rotations, and Dilations</b>  Identifying Coordinates of a Rotated Image	Rotations on the Coordinate Plane	Effects of Rotation		
<b>Lesson 4</b>	<b>Algebraic Representations of Transformations</b>						
<b>Lesson 5</b>	<b>Congruent Figures</b>	<b>Understanding Congruence Using Transformations</b>	<b>Understanding Congruence through Transformations</b>  Understanding Congruence  Understanding a Sequence of Translations  Understanding a Sequence of Reflections  Understanding a Sequence of Rotations  Identifying a Sequence of Two Translations  Identifying a Sequence of Transformations	Transformations & Congruence	Identifying Transformations Using Side Lengths  Understanding Transformations and Angle Measures		SLA 8.G.2
<b>Module 10: Transformations and Similarity</b>							
<b>Lesson 1</b>	<b>Properties of Dilations</b>		<b>Understanding the Effects of Translations, Reflections, Rotations, and Dilations</b>  The Effect of Dilations on Side Lengths and Area  <b>Understanding Similarity Through Transformations</b>				

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 4: Transformational Geometry

GO Math! Lessons		TenMarks Resources					Assessments
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	
			Identifying Side Lengths After a Dilation				
<b>Lesson 2</b>	<b>Algebraic Representations of Dilations</b>	<b>Effects of All Types of Transformations</b>	<b>Understanding the Effects of Translations, Reflections, Rotations, and Dilations</b>	Understanding Dilations	Identifying Transformations Using Side Lengths		SLA 8.G.3
		<b>Effects of Dilation</b>	The Effect of Dilation on Angle Measures		Understanding Transformations and Angle Measures		
			<b>Understanding Similarity Through Transformations</b>		Effects of Dilations		
			Dilating Figures on the Coordinate Plane				
<b>Lesson 3</b>	<b>Similar Figures</b>	<b>Understanding Similarity</b>	<b>Understanding Similarity Through Transformations</b>	Understanding Similarity	Understanding Similarity		SLA 8.G.4
			Introduction to Similarity		Identify Whether Sequence of Transformations Results in Congruent or Similar Image		
			Sequences of Transformations Involving Dilations				
			All Squares Are Rectangles and All Congruent Figures Are Similar				
			Performing Sequences of Transformations Given Ordered Pairs				



# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 5: Measurement Geometry

GO Math! Lessons		TenMarks Resources					Assessments
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	
<b>Module 11: Angle Relationships in Parallel Lines and Triangles</b>							
Lesson 1	Parallel Lines Cut by a Transversal		<b>Properties of Angles</b>  Identifying Angles from Parallel Lines Cut by a Transversal  Solving for Missing Angles Given Parallel Lines Cut by a Transversal				Parallel Universe
Lesson 2	Angle Theorems for Triangles		<b>Properties of Angles</b>  Proving the Angle Sum Theorem and Solving for Missing Angles  Proving the Exterior Angle Theorem and Solving for Missing Angles				
Lesson 3	Angle-Angle Similarity		<b>Properties of Angles</b>  The Angle-Angle Criterion for Similarity				SLA 8.G.5
<b>Module 12: The Pythagorean Theorem</b>							
Lesson 1	The Pythagorean Theorem		<b>Understanding the Pythagorean Theorem</b>  Identifying Right Triangles  Discovering the Pythagorean Theorem  Practicing the Pythagorean Theorem				Don't Be Squared of Triangles!
Lesson 2	Converse of the Pythagorean Theorem	Understanding the Pythagorean Theorem	<b>Understanding the Pythagorean Theorem</b>  Identifying Right Triangles Using the Converse of the Pythagorean Theorem  Identifying Real-World Right Triangles Using the Converse of the Pythagorean Theorem	Right Triangles & The Pythagorean Theorem	Understanding the Pythagorean Theorem		SLA 8.G.6
Lesson 3	Distance Between Two Points		<b>The Pythagorean Theorem on the Coordinate Plane</b>  The Pythagorean Theorem on the Coordinate Plane  Finding the Distance Between Two Points, Given a Context  Is the Triangle a Right Triangle?  Finding the Distance, Given Two Points				

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## GO Math! Unit 5: Measurement Geometry

GO Math! Lessons		TenMarks Resources						
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Module 13: Volume								
Lesson 1	Volume of Cylinders		<b>Volume of Cylinders, Cones, and Spheres</b> Finding the Volume of a Cylinder  Solving Real-World Problems with Cylinders					Pump Up the Volume
Lesson 2	Volume of Cones		<b>Volume of Cylinders, Cones, and Spheres</b> Finding the Volume of a Cone  Solving Problems with Volumes of Cones					
Lesson 3	Volume of Spheres	Comparing Volumes	<b>Volume of Cylinders, Cones, and Spheres</b> Finding the Volume of a Sphere  Solving Real-World Problems with Spheres  Comparing Volumes of Cylinders, Cones, and Spheres	Comparing Volumes  Volume of Cones & Cylinders	Comparing Volumes  Identifying the Volume of Cones, Cylinders, and Spheres			SLA 8.G.9

# TenMarks Curriculum Alignment Guide: GO Math! Grade 8

## GO Math! Unit 6: Statistics

GO Math! Lessons		TenMarks Resources					Assessments
		Assignments	Lessons	Amplifiers	Videos	Jam Sessions	
Module 14: Scatter Plots							
Lesson 1	Scatter Plots and Association	Understand Patterns of Association Between Two Quantities	Construct and Interpret Patterns in Scatter Plots	Exploring the Correlation between Two Quantities	Understanding Patterns of Association Between Two Quantities		SLA 8.SP.1
			Constructing Scatter Plots				
			Construct Scatter Plots with Linear and Non-Linear Associations				
			Locate Outliers and Clusters in Sets of Bivariate Data				
Lesson 2	Trend Lines and Predictions						
Module 15: Two-Way Tables							
Lesson 1	Two-Way Frequency Tables		Display Data in a Two-Way Table				
			Understand and Display Bivariate Categorical Data				
			Construct a Two-Way Table from Bivariate Categorical Data				
Lesson 2	Two-Way Relative Frequency Table	Identifying Relative Frequency	Display Data in a Two-Way Table	Relative Frequency from Two-Way Tables	Identifying Relative Frequency		
		Interpreting Two-Way Tables	Calculate Relative Frequencies in a Two-Way Table	Visualizing Bivariate Data	Comparing Numbers Using Relative Frequency		
			Determine Associations Based on a Two-Way Frequency Table	Relative Frequency from Two-Way Tables	Interpreting Two-Way Tables		
			Use Two-Way Frequency Tables to Make Predictions				