

EngageNY Module 1: Integer Exponents and Scientific Notation

EngageNY Lessons	TenMarks Resources					
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs
<i>Topic A: Exponential Notation and Properties of Integer Exponents</i>						
Lesson 1		Operations with Integer Exponents				
		Writing and Evaluating Exponential Expressions with Negative Bases				
Lesson 2		Operations with Integer Exponents				
		Multiplying Exponents				
		Dividing Exponents				
Lesson 3		Operations with Integer Exponents				
		Raising a Power to a Power				
Lesson 4						
Lesson 5	Identifying Exponential Expressions	Operations with Integer Exponents	Working with Exponents	Identifying Equivalent Exponents		
		Understanding the Zero Power and Negative Exponents		Simplifying Expressions Involving Exponents		
Lesson 6						
<i>Topic B: Magnitude and Scientific Notation</i>						
Lesson 7		Numbers in Scientific Notation				
		Understanding Magnitude				
Lesson 8						
Lesson 9		Operations with Numbers in Scientific Notation				
		Subtracting Numbers in Scientific Notation				
Lesson 10		Operations with Numbers in Scientific Notation				

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EngageNY Module 1: Integer Exponents and Scientific Notation

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Lesson 11		Multiplying and Dividing Numbers in Scientific Notation Operations with Numbers in Scientific Notation Daunting Distances: Multiplying Numbers in Scientific Notation					
Lesson 12	Operations with Scientific Notation	Operations with Numbers in Scientific Notation Understanding Units	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			SLA 8.EE.4
Lesson 13		Numbers in Scientific Notation Comparing Numbers in Scientific Notation					

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EngageNY Module 2: The Concept of Congruence

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<i>Topic A: Definitions and Properties of Basic Rigid Motions</i>							
Lesson 1		Rigid Transformations and Their Effects Triangles on the Move					
Lesson 2							
Lesson 3	Recognize Transformations with Parallel Lines	Rigid Transformations and Their Effects Transforming Parallel Lines	Transformations & Parallel Lines	Identifying Transformations Using Side Lengths			SLA 8.G.1
Lesson 4							
Lesson 5							
Lesson 6		Understanding the Effects of Translations, Reflections, Rotations, and Dilations Identifying Coordinates of a Rotated Image					SLA 8.G.2
<i>Topic B: Sequencing the Basic Rigid Motions</i>							
Lesson 7		Understanding Congruence through Transformations Understanding a Sequence of Translations					
Lesson 8							
Lesson 9		Understanding Congruence through Transformations Understanding a Sequence of Rotations					
Lesson 10							
<i>Topic C: Congruence and Angle Relationships</i>							
Lesson 11		Understanding Congruence through Transformations					

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EngageNY Module 2: The Concept of Congruence

EngageNY Lessons	Assignments	Lessons	TenMarks Resources				
			Amplifiers	Videos	Jam Sessions	Labs	Assessments
		Understanding Congruence					
Lesson 12		Properties of Angles					Parallel Universe
		Identifying Angles from Parallel Lines Cut by a Transversal					
Lesson 13	Classifying Congruent Triangles	Properties of Angles	Understanding Triangles, Congruence, and Similarity	Classifying Congruent Triangles			
	Understanding Triangles Using Angles	Proving the Angle Sum Theorem and Solving for Missing Angles	Parallel Lines & Transversals	Classifying Congruent and Similar Triangles			
	Triangles and Angle Properties						
Lesson 14		Properties of Angles					
		Proving the Exterior Angle Theorem and Solving for Missing Angles					
<i>Topic D: The Pythagorean Theorem</i>							
Lesson 15		Applying the Pythagorean Theorem					
		Finding a Missing Hypotenuse					
Lesson 16		Applying the Pythagorean Theorem					
		Solving Word Problems Using the Pythagorean Theorem					

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EngageNY Module 3: Similarity

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<i>Topic A: Dilation</i>							
Lesson 1		Understanding the Effects of Translations, Reflections, Rotations, and Dilations The Effect of Dilation on Side Lengths and Area					
Lesson 2	Effects of All Types of Transformations Effects of Dilation	Understanding the Effects of Translations, Reflections, Rotations, and Dilations The Effect of Dilation on Angle Measures	Understanding Dilations	Identifying Transformations Using Side Lengths			SLA 8.G.3
				Understanding Transformations and Angle Measures Effects of Dilation			
Lesson 3							
Lesson 4							
Lesson 5							
Lesson 6							
Lesson 7							
<i>Topic B: Similar Figures</i>							
Lesson 8		Understanding Similarity Through Transformations Sequences of Transformations Involving Dilations					
Lesson 9							
Lesson 10	Classifying Triangles as Congruent or Similar	Properties of Angles Angle-Angle Criterion for Similarity	Understanding Triangles, Congruence, and Similarity Parallel Lines & Transversals	Classifying Congruent and Similar Triangles Classifying Congruent Triangles			

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EngageNY Module 3: Similarity

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Lesson 11		Understanding Similarity Through Transformations Introduction to Similarity					
Lesson 12							
<i>Topic C: The Pythagorean Theorem</i>							
Lesson 13		Applying the Pythagorean Theorem Finding a Missing Leg					
Lesson 14		Understanding the Pythagorean Theorem Identifying Right Triangles Using the Converse of the Pythagorean Theorem					

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EngageNY Module 4: Linear Equations

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Topic A: Writing and Solving Linear Equations							
Lesson 1	Finding Linear Equations	Solving Equations in One Variable	Solving Multi-Step Linear Equations	Solving Linear Equations			
	Solving Linear Equations with Fraction Coefficients	Writing and Solving Equations in a Context	Solving Linear Equations with Fractional Coefficients	Solving One-Step Linear Equations			
	Solving Linear Equations with Decimal Coefficients		Solving Linear Equations with Decimal Coefficients	Identifying Multiple Forms of an Expression			
	Solving Linear Equations with Percents as Coefficients		Writing & Solving Equations with Percentages	Solving Expressions with Rational Coefficients			
	Solving Linear Equations Involving Integers		Solving One-Step Equations with Integers				
			Solving Two-Step Equations with Integers				
Lesson 2							
Lesson 3		Solving Equations in One Variable					
		Solving Equations with Variables on Both Sides					
Lesson 4		Solving Equations in One Variable					
		Solving Multi-Step Equations					
Lesson 5							
Lesson 6		Solving Equations in One Variable					
		Solving Equations with No Solution					
Lesson 7		Solving Equations in One Variable					

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EngageNY Module 4: Linear Equations

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Lesson 8		Solving equations with Infinitely Many Solutions					
Lesson 9							
<i>Topic B: Linear Equations in Two Variables and Their Graphs</i>							
Lesson 10							
Lesson 11		Identifying and Interpreting Slope of a Proportional Relationship Comparing the Slope of a Graph and a Table, Within a Context					
Lesson 12							
Lesson 13							
Lesson 14		Slope and the Equation of a Line Horizontal and Vertical Lines					SLA 8.EE.6
<i>Topic C: Slope and Equations of Lines</i>							
Lesson 15							
Lesson 16		Slope and the Equation of a Line The Slope Formula					
Lesson 17							
Lesson 18							
Lesson 19							
Lesson 20	Writing Linear Equations Using Slope-Intercept Form	Slope and the Equation of a Line	Slope-Intercept Form	Graphing Functions and Identifying Equations			

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EngageNY Module 4: Linear Equations

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
		Equation of a Line: $y = mx + b$					
Lesson 21							
Lesson 22		Identifying and Interpreting Slope of a Proportional Relationship Comparing the Slope of a Graph and an Equation					
Lesson 23							
Topic D: Systems of Linear Equations and Their Solutions							
Lesson 24							
Lesson 25		Solving Systems of Equations Solving a System of Equations Graphically					
Lesson 26		Solving Systems of Equations One Solution, No Solution, Many Solutions				Just Keep Swimming	
Lesson 27	Investigating Systems of Equations Graphically and Algebraically	Solving Systems of Equations Practice with Substitution	Solving a System of Equations Using Elimination Solving Systems of Linear Equations by Graphing	Solving Systems of Equations Using Substitution Solving Systems of Linear Equations Graphically			
Lesson 28		Solving Systems of Equations Elimination Practice			Solve Systems of Linear Equations - Standard Form		
Lesson 29	Solving Word Problems Involving Systems of Equations	Solving Systems of Equations Real Life Systems: Bakery	Systems of Equations & Word Problems	Solving Word Problems Given Ordered Pairs Solving Word Problems Involving Systems of Equations			SLA 8.EE.8

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EngageNY Module 4: Linear Equations

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Lesson 30							
<i>Topic E: Pythagorean Theorem</i>							
Lesson 31							

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EngageNY Module 5: Examples of Functions from Geometry

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<i>Topic A: Functions</i>							
Lesson 1							
Lesson 2		Introduction to Functions: Inputs and Outputs Determining If a Relation Is a Function					
Lesson 3	Understanding Domain	Introduction to Functions: Inputs and Outputs Understanding the Vertical Line Test	Understanding Domain	Understanding Domain and Range			How Do You Function?
Lesson 4							
Lesson 5	Determining If a Relation is a Function	Introduction to Functions: Inputs and Outputs Functions in Word Problems	Recognizing Functions	Identifying Functions			SLA 8.F.1
Lesson 6		Identifying Linear Functions Comparing Linear and Non-Linear Functions Using Tables					
Lesson 7		Comparing Functions Comparing an Equation and Graph					
Lesson 8		Identifying Linear Functions Comparing Linear and Non-Linear Equations and Graphs					
<i>Topic B: Volume</i>							
Lesson 9							
Lesson 10							Pump Up The Volume
Lesson 11	Comparing Volumes	Volume of Cylinders, Cones, and Spheres	Comparing Volumes	Comparing Volumes			SLA 8.G.9

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EngageNY Module 5: Examples of Functions from Geometry

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
		Focus 7: Comparing Volumes of Cylinders, Cones, and Spheres	Volume of Cones & Cylinders	Identifying the Volume of Cones, Cylinders, and Spheres			

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EngageNY Module 6: Linear Functions

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
<i>Topic A: Linear Functions</i>							
Lesson 1	Identifying Linear Equations	Understanding and Interpreting Functions	Slope-Intercept Form	Graphing Functions and Identifying Equations			SLA 8.F.4
	Rate of Change	Writing and Graphing an Equation Given a Word Problem	Linear Equations & Word Problems Rate of Change	Identifying Rate of Change			
Lesson 2							
Lesson 3							
Lesson 4		Describing and Identifying Functions Using Qualitative Attributes				Stories from the Deep	SLA 8.F.5
		Comparing Intervals within a Context					
Lesson 5							
<i>Topic B: Bivariate Numerical Data</i>							
Lesson 6		Construct and Interpret Patterns in Scatter Plots					
		Constructing Scatter Plots					
Lesson 7	Identifying the Correlation Between Two Quantities	Construct and Interpret Patterns in Scatter Plots	Exploring the Correlation between Two Quantities	Correlations in Scatter Plots			SLA 8.SP.1
	Understand Patterns of Association Between Two Quantities	Construct Scatter Plots with Linear and Non-Linear Associations Determine Types of Correlation: Positive, Negative, or No Correlation Locate Outliers and Clusters in Sets of Bivariate Data		Understanding Patterns of Association Between Two Quantities			
Lesson 8		Using Lines of Best Fit to Model Bivariate Data					
		Locating a Line of Best Fit					

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EngageNY Module 6: Linear Functions

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Lesson 9		The Line of Best Fit and the Distribution of Points The Line of Best Fit and the Trend of the Data Using Lines of Best Fit to Model Bivariate Data Determining the Equation of a Line of Best Fit					SLA 8.SP.2
<i>Topic C: Linear and Nonlinear Models</i>							
Lesson 10		Using Equations of Best Fit Lines to Solve Problems in Context Determining the Line of Best Fit Interpreting Aspects of Data from a Graph and a Table					
Lesson 11	Interpreting Scatter Plots	Using Equations of Best Fit Lines to Solve Problems in Context Solving Problems in Context Using the Line of Best Fit	Correlation & Trend Lines	Interpreting Scatter Plots			SLA 8.SP.3
Lesson 12							
<i>Topic D: Bivariate Categorical Data</i>							
Lesson 13	Interpreting Two-Way Tables	Display Data in a Two-Way Table Understand and Display Bivariate Categorical Data Construct a 2-Way Table from Bivariate Categorical Data Calculate Relative Frequencies in a 2-Way Table Use 2-Way Frequency Tables to Make Predictions	Visualizing Bivariate Data	Interpreting Two-Way Tables			
Lesson 14	Identifying Relative Frequency	Display Data in a Two-Way Table Determine Associations Based on a 2-Way Frequency Table	Relative Frequency from Two-Way Tables	Identifying Relative Frequency Comparing Numbers Using Relative Frequency			

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EngageNY Module 7: Introduction to Irrational Numbers Using Geometry

EngageNY Lessons	TenMarks Resources					
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs
<i>Topic A: Square and Cube Roots</i>						
Lesson 1						
Lesson 2		<p>Approximating and Comparing Irrational Numbers</p> <p>Focus 1: Approximating Irrational Numbers to the Nearest Whole Number</p>				
Lesson 3		<p>Understanding and Applying Square Roots and Cube Roots</p> <p>Focus 1: Recognizing Perfect Squares and Perfect Cubes</p> <p>Focus 2: Simplifying Square Roots</p> <p>Focus 3: Applying the Power of a Power Property to Simplify Square Roots</p> <p>Focus 4: Using Area to Find the Side Lengths</p> <p>Focus 5: Solving Simple Equations Involving Square Roots</p> <p>Focus 6: Simplifying Cube Roots</p> <p>Focus 7: Applying the Power of a Power Property to Simplify Cube Roots</p> <p>Focus 8: Using Volume to Find the Side Lengths</p> <p>Focus 9: Solving Simple Equations Involving Cube Roots</p>				
Lesson 4						
Lesson 5						
<i>Topic B: Decimal Expansions of Numbers</i>						
Lesson 6		<p>Classifying and Representing Rational and Irrational Numbers</p>				

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EngageNY Module 7: Introduction to Irrational Numbers Using Geometry

EngageNY Lessons	Assignments	Lessons	TenMarks Resources			
			Amplifiers	Videos	Jam Sessions	Labs
Lesson 7		Converting Between Fractions and Decimals				
Lesson 8						
Lesson 9						
Lesson 10		Classifying and Representing Rational and Irrational Numbers Converting Repeating Decimals to Fractions				
Lesson 11		Approximating and Comparing Irrational Numbers Focus 2: Approximating Irrational Numbers to the Nearest Tenth				
Lesson 12						
Lesson 13		Approximating and Comparing Irrational Numbers Focus 3: Plotting and Comparing Rational and Irrational Numbers on a Number Line				
Lesson 14						
Topic C: The Pythagorean Theorem						
Lesson 15		Understanding the Pythagorean Theorem Discovering the Pythagorean Theorem				Don't Be Squared of Triangles!
Lesson 16		Understanding the Pythagorean Theorem Identifying Right Triangles Using the Converse of the Pythagorean Theorem				
Lesson 17		The Pythagorean Theorem on the Coordinate Plane Is the Triangle a Right Triangle?				

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EngageNY Module 7: Introduction to Irrational Numbers Using Geometry

EngageNY Lessons	TenMarks Resources						
	Assignments	Lessons	Amplifiers	Videos	Jam Sessions	Labs	Assessments
Lesson 18							
<i>Topic D: Applications of Radicals and Roots</i>							
Lesson 19		Volumes of Cylinders, Cones, and Spheres					
		Solving Real-World Problems with Spheres					
Lesson 20		Volumes of Cylinders, Cones, and Spheres					
		Solving Problems with Volumes of Cones					
Lesson 21							
Lesson 22							
Lesson 23							