7th Grade Math: Scope Sequence and Pacing Guide

September - November	December- March	April - June
Unit 1: Scale Factor **Power Standards: 7.G.A, 7.G.B**	**Unit 4: Proportional Relationships & Percentages** **Power Standards: 7.RP.A, 7.NS.A**	**Unit 6: Continued** **7.EE.A, 7.EE.B, 7.NS.A**
What are Scaled Copies	Lots of Flags	Reintroducing Inequalities
Corresponding Parts and Scale Factors	Rations and Rates With Fractions	Finding Solutions to Inequalities in Context
Making Scaled Copies	Revisiting Proportional Relationships	Efficiently Solving Inequalities
Scaled Relationships	More than That, Less than That	Interpreting Inequalities
The Size of the Scale Factor	Say It with Decimals	Modeling with Inequalities
Scaling and Area (Optional)	Increasing and Decreasing	Subtraction in Equivalent Expressions
Scale Drawings	One Hundred Percent	Expanding and Factoring
Scale Drawings and Maps (Optional)	Percent Increase and Decrease with Equations	Combining Like Terms (Part 1)
Creating Scale Drawings	Part of a Percent	Combining Like Terms (Part 2)
Changing Scales in Scale Drawings	Tax and Tip	Applications of Expressions
Scales without Units	Percentage Contexts	**Unit 7: Angles, Triangles, and Prisms**
Units in Scale Drawings	Solving Multi-Step Percentage Problems	**Power Standards: 7.G.A, 7.G.B., 7.EE.A**
Draw it to Scale (Optional)	Measurement Error	Relationships of Angles
Unit 2: Introducing Proportional Relationships **Power Standards: 7.RP.A, 7.G.A, 7.G.B**	Percent Error	Adjacent Angles
	Changes on the Earth (Optional)	Nonadjacent Angles
One of These Things Is Not Like the Others	Posing Percentage Problems	Solving for Unknown Angles
Introducing Proportional Relationships with Tables	**Unit 5: Rational Number Arithmetic**	Using Equations to Solve for Unknown Angles
More about Constant of Proportionality	**Power Standards: 7.NS.A, 7.RP.A, 7.EE.B**	Building Polygons (Part 1)
Proportional Relationships and Equations	Interpreting Negative Numbers	Building Polygons (Part 2)
Two Equations for Each Relationship	Changing Temperatures	Triangles with 3 Common Measures
Writing Equations to Represent Relationships	Changing Elevation	Drawing Triangles (Part 1)
Comparing Relationships with Tables	Money and Debts	Drawing Triangles (Part 2)
Comparing Relationships with Equations	Representing Subtraction	Slicing Solids
Solving Problems about Proportional Relationships	Finding Differences	Volume of Right Prisms
Introducing Graphs of Proportional Relationships	Adding and Subtracting to Solve Problems	Decomposing Bases for Area
Interpreting Graphs of Proportional Relationships	Multiplying Rational Numbers (Part 1)	Surface Area of Right Prisms
Using Graphs to Compare Relationships	Multiplying Rational Numbers (Part 2)	Distinguishing Volume and Surface Area
Two Graphs for Each Relationship	*Multiply! (Optional)*	Applying Volume and Surface Area
Four Representations	Dividing Rational Numbers	*Building Prisms (Optional)*
Using Water Efficiently (Optional)	Negative Rates	**Unit 8: Probability and Sampling**
Unit 3: Measuring Circles **Power Standards: 7.RP.A, 7.G.A, 7.G.B, 7.EE.B**	Expressions with Rational Numbers	**Power Standards:7.RP.A, 7.NS.A, 7.SP.A, 7.SP.N, 7.SP.C**
	Solving Problems with Rational Numbers	Mystery Bags
How Well Can You Measure?	Solving Equations with Rational Numbers	Chance Experiments
Exploring Circles	Representing Contexts with Equations	What Are Probabilities
Exploring Circumference	The Stock Market	Estimating Probabilities wit Repeated Experiments
Applying Circumference	**Unit 6: Expressions, Equations, and Inequalities**	More Estimating Probabilities
Circumference and Wheels	**Power Standards: 7.EE.A, 7.EE.B, 7.NS.A**	Estimating Probabilities Using Simulation
Estimating Area	Relationships between Quantities	Simulating Multi-Step Experiments
Exploring the Area of a Circle	Reasoning about Contexts and Tape Diagrams	Keeping Track of All Possible Outcomes
Relating Area to Circumference	Reasoning about Equations with Tape Diagrams	Multi-Step Experiments
Applying Area of Circles	Reasoning about Equations with Tape Diagrams (Part 1)	Designing Simulations
Distinguishing Circumference and Area	Reasoning about Equations with Tape Diagrams (Part 2)	Comparing Groups
Stained-Glass Windows (Optional)	Distinguishing between Two Types of Situations	Larger Populations
	Reasoning about Solving Equations (Part 1)	What Makes a Good Sample?
Thanksgiving Break	Reasoning about Solving Equations (Part 2)	Sampling in a Fair Way
	Dealing with Negative Numbers	Estimating Population Measures of Center
	Different Options for Solving an Equation	Estimating Population Proportions
	Using Equations to Solve Problems	*More about Sampling Variability (Optional)*
	Solving Problems about Percent Increase or Decrease	Comparing Populations Using Samples
		Comparing Populations With Friends
	Spring Break	*Memory Test (Optional)*
		End of the School Year