WESTWOOD Public Schools

8TH GRADE MATH

	Topic:	Specifically:
Semester 1	7th grade review	• Fraction and decimal operations • Integer operations • Distributive Property • Combining Like Terms • Simplifying Expressions
	Equations	• Solving Simple Equations • Solving Multi-Step Equations • Solving Equations with Variables on Both Sides
	Exponents and Scientific Notation	• Exponents • Product of Powers Property • Quotient of Powers Property • Zero and Negative Exponents • Reading Scientific Notation • Writing Scientific Notation • Operations in Scientific Notation
	Real Numbers and the Pythagorean Theorem	• Finding Square Roots • Finding Cube Roots • The Pythagorean Theorem • Approximating Square Roots • Using the Pythagorean Theorem
Semester 1	Transformations	• Congruent Figures • Translations • Reflections • Rotations • Similar Figures • Perimeters and Areas of Similar Figures • Dilations

Semester 2	Angles and Triangles	• Parallel Lines and Transversals • Angles of Triangles • Angles of Polygons • Using Similar Triangles
	Graphing and Writing Linear Equations	• Graphing Linear Equations • Rewriting Equations and Formulas • Slope of a Line
Semester 2		• Graphing Proportional Relationships • Graphing Linear Equations in Slope-Intercept Form • Graphing Linear Equations in Standard Form • Writing Equations in Slope-Intercept Form • Writing Equations in Point-Slope Form
	Systems of Linear Equations	• Solving Systems of Linear Equations by Graphing • Solving Systems of Linear Equations by Substitution • Solving Systems of Linear Equations by Elimination • Solving Special Systems of Linear Equations
	Functions	• Relations and Functions • Representations of Functions • Linear Functions • Comparing Linear and Nonlinear Functions • Analyzing and Sketching Graphs
	Volume and Similar Solids	• Volumes of Cylinders • Volumes of Cones • Volumes of Spheres • Surface Areas and Volumes of Similar Solids
	Data Analysis and Displays	• Scatter Plots • Line of Fit • Two-Way Tables • Choosing a Data Display

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