7th Grade Math Syllabus

CMP Units Covered	Math Concepts
Comparing and Scaling (Ratio, proportion, and percent)	 Calculate unit rates Understanding of proportional reasoning Solving proportions using cross multiplication
Moving Straight Ahead, Supplemented by Pre-Algebra (Linear relationships)	 Represent linear relationships in tables, graphs, and words Describe the rate that a line increases in terms of slope Write equations in slope-intercept form (y=mx+b) Solve equations with one variable Solve equations with two variables Writing and solving inequalities Representing inequalities on a graph
Filling and Wrapping, Supplements by Pre-Algebra (Three-dimensional measurement)	 Finding the volume of cylinders, cones, and spheres Finding the surface area of prisms and cylinders
What do you Expect? Supplemented by Pre-Algebra (Probability and statistics)	 Define theoretical probability Define experimental probability Determine the theoretical probability of an event Determine the theoretical probability of an event with two stages
Thinking with Mathematical Models (Linear and inverse models)	 Writing and simplifying expressions Writing and solving equations Writing linear equations from tables, graphs, ordered pairs Slope of line Graphing solutions of inequalities on a number line Inverse variation
Samples and Populations (Data and statistics)	 Comparing sets of data using histograms and box and whisker plots Understanding sample size Selecting the proper sample size Comparing data with two variables
Looking for Pythagoras (Only first half) (The Pythagorean Theorem)	 Characteristics of polygons Area Introduction to radical expressions Distance between points Pythagorean Theorem Pythagorean Triples Special Right Triangles Irrational numbers