

Oakview Preparatory School
Long Range Plans Based on NYS
Standards 2026 - 2027

Math – Grade 8

By: Mr. White

Yearly Plan: Grade 8 Common Core Big Ideas Textbook Alignment

Month	Standards (NYS/Common Core)	Big Ideas 2019 CC Grade 8 (Chapters & Lessons)
September	8.EE.A.1 Understand and apply properties of integer exponents	Ch. 1: Real Numbers - 1.1 Exponents - 1.2 Multiplying Powers - 1.3 Powers of Powers - 1.4 Dividing Powers - 1.5 Negative Exponents
October	8.EE.C.7, 8.EE.C.8 Solve linear equations & systems	Ch. 2: Equations - 2.1 One-Step Equations - 2.2 Multi-Step Equations - 2.3 Equations with Variables on Both Sides - 2.4 Literal Equations Ch. 6: Systems of Linear Equations - 6.1 Graphing Systems - 6.2 Substitution - 6.3 Elimination - 6.4 Applications
November	8.F.A.1, 8.F.A.2, 8.F.A.3 Define, evaluate, compare functions	Ch. 3: Functions - 3.1 Relations & Functions - 3.2 Functions as Rules & Tables - 3.3 Functions as Graphs - 3.4 Compare Linear & Nonlinear Functions
December	8.G.B.6, 8.G.B.7, 8.G.B.8 Pythagorean Theorem	Ch. 8: Right Triangles - 8.1 Pythagorean Theorem - 8.2 Converse of Pythagorean Theorem - 8.3 Distance on the Coordinate Plane

January	8.G.C.9 Volume of cylinders, cones, spheres	Ch. 9: Volume & Surface Area - 9.1 Volume of Cylinders - 9.2 Volume of Cones - 9.3 Volume of Spheres
February	8.SP.A.1, 8.SP.A.2, 8.SP.A.3 Scatter plots & lines of best fit	Ch. 12: Scatter Plots & Data Analysis - 12.1 Scatter Plots - 12.2 Lines of Best Fit - 12.3 Two-Way Tables
March	8.EE.A.2, 8.EE.A.3, 8.EE.A.4 Radicals & scientific notation	Ch. 7: Real Numbers & Roots - 7.1 Square & Cube Roots - 7.2 Irrational Numbers Ch. 1 (review) - 1.6 Scientific Notation - 1.7 Operations with Scientific Notation
April	8.F.B.4, 8.F.B.5 Model with functions	Ch. 4: Linear Functions - 4.1 Slope of a Line - 4.2 Graphing Linear Functions - 4.3 Writing Linear Functions - 4.4 Applications of Linear Functions
May	8.G.A.1, 8.G.A.2, 8.G.A.3 Congruence, similarity, transformations	Ch. 10: Transformations - 10.1 Translations - 10.2 Reflections - 10.3 Rotations - 10.4 Congruent Figures Ch. 11: Dilations & Similarity - 11.1 Dilations - 11.2 Similar Figures

June

8.SP.B.4
Probability models

Ch. 13: Probability
- 13.1 Experimental
Probability
- 13.2 Theoretical
Probability
- 13.3 Compound Events