

8th Grade Math Learning Goals

#	Learning Goal	Standard(s)
8-1	Know that there are numbers that are not rational, and approximate them by rational numbers.	8.NS.1.1 8.NS.1.2
8-2	Work with radicals and integer exponents.	8.EE.1.1 8.EE.1.2
8-3	Understand the connections between proportional relationships, lines, and linear equations.	8.EE.2.5 8.EE.2.6
8-4	Define, evaluate, and compare functions.	8.F.1.1 8.F.1.2 8.F.1.3
8-5	Use functions to model relationships between quantities.	8.F.2.4 8.F.2.5
8-6	Analyze and solve linear equations.	8.EE.3.7
8-7	Analyze and solve pairs of simultaneous linear equations.	8.EE.3.8
8-8	Understand congruence and similarity using physical models, transparencies, or geometry software.	8.G.1.1 8.G.1.2 8.G.1.3 8.G.1.4 8.G.1.5
8-9	Understand and apply the Pythagorean Theorem.	8.G.2.6 8.G.2.7 8.G.2.8
8-10	Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.	8.G.3.9
8-11	Investigate patterns of association between bivariate data.	8.SP.1.1 8.SP.1.2 8.SP.1.3 8.SP.1.4
8-12	Apply integer exponents to perform operations involving scientific notation.	8.EE.1.3 8.EE.1.4