

Below are the key skills that students should possess by the end of an 8th grade math course. They are based on the Common Core State Standards and are written in student-friendly terms. The learning targets are grouped by unit of study, and the corresponding state standards and textbook resources are listed.

Power Standard	#	Learning Target	CCSSM	OFM Block	Lesson
Solving Equations (Unit 1)	1	I can simplify algebraic expressions.	7 th grade		3
	2	I can solve single-variable equations.	8.EE.7b	LE1	4-6
	3	I can graph points on the coordinate plane.	8.SP.1		7
Rate of Change and Start Value (Unit 2)	4	I can determine the rate of change, start value, and equation using tables.	8.F.4, 8.EE.6, 8.F.3		10-13
	5	I can determine the rate of change, start value, and equation using graphs.		LE2	14, 17
	6	I can determine the rate of change, start value, and equation using two points.	8.F.4		15, 18
Linear Equations (Unit 3)	7	I can graph direct variation equations.	8.EE.5, 8.F.2		3B
	8	I can graph using Slope-Intercept form.	8.F.3	LE3	16
	9	I can determine if a set of data is a function.	8.EE.5, 8.F.1,2	CCSS	21, 3C
Systems (Unit 4)	10	I can determine the number of solutions in a system of equations.	8.EE.8a		22
	11	I can solve a system of equations using graphs.			23
	12	I can solve a system of equations using tables.		LE4	24
	13	I can solve a system of equations using substitution.	8.EE.8		25
	14	I can solve a system of equations using elimination.			26
Two-Variable Statistics (Unit 5)	15	I can make predictions using the line of best fit.	8.SP.1,8.SP.3		21
	16	I can write the equation of a trend line, interpret the slope and y-intercept, and use these to make predictions.	8.SP.1-3	DA4	22-25, 3I
	17	I can predict using a best fit equation.	8.SP.1-3		23

CCSSM = Common Core State Standards for Math

EE = Expressions and Equations

G = Geometry

RP = Ratios and Proportional Relationships

NS = The Number System

SP = Statistics and Probability

OFM = Oregon Focus on Math

FD = Fractions and Decimals

IA = Introductory Algebra

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Angles, Parallel Lines, Transversals (Unit 6)	18	I can use alternate exterior and interior angle properties.	8.G.5		5
	19	I can use corresponding and same-side interior angle properties.	8.G.5	LA1	6
Triangles (Unit 7)	20	I can find the missing measures of an angle in a triangle.	8.G.5	LA2	8, 9
	21	I can determine if two triangles are congruent or similar.	8.G.2,4		10, 11
Pythagorean Theorem (Unit 8)	22	I can use and estimate square roots.	8.EE.2, 8.NS.1-2	LA3	14, 15
	23	I can use the Pythagorean Theorem.	8.G.6,7		16-18
	24	I can find the distance between two points.	8.G.8		19, 20
Exponents (Unit 9)	25	I can convert a repeating decimal to a fraction.	8.NS.1	CCSS	3D
	26	I can apply properties of exponents.	8.EE.1		3E, 3F
	27	I can write a number in scientific notation.	8.EE.3		3G
	28	I can compute using scientific notation.	8.EE.4		3H
Volume and Transforma- tions (Unit 10)	29	I can use roots to solve equations with exponents.	8.EE.2		3J
	30	I can find the volume of a cylinder, cone and sphere. (NM)	8.G.9		3K-3M
	31	I can describe the changes on a coordinate plane after a dilation, rotation, translation and reflection and prove that two figures are similar or congruent.	8.G.3	CCSS	3N-3P

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