Below are the key skills that students should possess by the end of a 7th 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.

Unit	#	Learning Target	CCSSM	OFM Block	Lesson
Integers (2)	1	I can add and subtract integers.	7.NS.1		10,11
	2	I can multiply and divide integers.	7.NS 2	RNE 2	12, 13
	3	I can simplify expressions using Order of Operations.	7.NS.3		14, 15
Rational # Operations (3)	4	I can add and subtract rational numbers.	7.NS.1	RNE 3	17, 18
	5	I can multiply and divide rational numbers.	7.NS.3		20, 21
Solving Equations (4)	6	I can solve single variable equations.	7.EE.1-3		21-24, 28
	7	I can simplify expressions with variables.	7.EE.1-3	RNE 4	25-27
	8	I can solve a single variable inequality.	7.EE.4		2A
Angle Relationships (5)	9	I can use the relationships between supplementary, complementary and vertical angles to write and solve equations for unknown angles.	7.G.5	CCSS	2D, 2E
Ratios and Rates (6)	10	I can convert fractions to decimals.	7.NS.2d	PROP1	2
	11	I can compute unit rates.	7.RP.1		4, 2F
Proportions and Similarity (7)	12	I can write and apply equations that represent proportional relationships.	7.RP.3	PROP 2	6, 7, 9
	13	I use scale drawings to determine the dimensions and area of a shape.	7.G.3		10, 11
Percents and Probability (8)	14	I can define, recognize, and explain the probability of an outcome.	7.SP.5	PROP 3	13
	15	I can use probability with collected data to predict the number of times and event will occur.	7.SP.6		14
	16	I can develop a probability model and use it to find probabilities of events.	7.SP.7		14, 2G, 2H, 15
	17	I can use proportional relationships to solve multi-step ratio and percent problems.	7.RP.3		16-19

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G = Geometry
RP = Ratios and Proportional Relationships
NS = The Number System
SP = Statistics and Probability

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FD = Fractions and Decimals
IA = Introductory Algebra
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Sampling and Statistics (9)	18	I can recognize a random sample.	7.SP.1	CCSS	2I
	19	I can draw inferences about a population based on a random sample.	7.SP.2		2J
	20	I can compare two sets of data using measures of center.	7.SP.3		2K
Direct Variation (10)	21	I can recognize and write an equation for direct variation.	7.SP.4	PROP 4	22-24
Two-Dimensional Geometry (11)	22	I can recognize and draw a two-dimensional shape given specific conditions.	7.G.2	SAV 1	2L
	23	I can determine the area of triangles and quadrilaterals.	7.G.6		1, 2
	24	I can determine the area and circumference of a circle.	7.G.4		3-6
Three-Dimensional Geometry (12)	25	I can recognize and draw a three-dimensional shape given specific conditions.	7.G.2	SAV 2	10,11
	26	I can identify the two-dimensional figure that results from slicing a three-dimensional figure.	7.G.3		2M
	27	I can find the surface area of a prism and pyramid.	7.G.6		12, 14
	28	I can find the volume of a prism and pyramid.	7.G.6		17, 20
Angle Pairs (13)	29	I can use alternate exterior and interior angle properties.	8.G.5	LA 1	5
	30	I can use corresponding and same-side interior angle properties.	8.G.5		6
Tri and Quad (14)	31	I can find the missing measures of an angle in a triangle.	8.G. 5	LA 2	8, 9
	32	I can determine if two triangles are congruent or similar.	8.G.2,4		10, 11
The Pythagorean Theorem (15)	33	I can use and estimate square roots.	8.EE.2, 8.NS.1-2	LA 3	14, 15
	34	I can use the Pythagorean Theorem.	8.G.6,7		16-18
	35	I can find the distance between two points.	8.G.8		19, 20

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