

Below are the key skills that students should possess by the end of the first semester of Intermediate Algebra. 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	Textbook Resource
<b>Systems</b>	1	I can graph linear equations in slope-intercept and standard form.	A.CED.2	1.1-1.3
	2	I can write linear equations from given information.	A.CED.2	2.1-2.4
	3	I can solve systems by graphing.	A.REI.6	3.1-3.4
	4	I can solve systems by substitution.	A.REI.3	4.1-4.4
	5	I can solve systems by elimination.	A.REI.5	5.1-5.4
<b>Linear Programming</b>	6	I can solve systems of inequalities by graphing in various forms.		7.1-7.4
	7	I can create systems of inequalities and use them to solve problems (Linear Programming).	A.CED.3	8.1-8.4
<b>Exponents</b>	8	I can evaluate expressions with exponents, including zero and negatives.		10.1-10.3
	9	I can simplify algebraic expressions with exponents involving multiplication and division.		10.4, 11.1-11.3
	10	I can use scientific notation.		12.1-12.3
	11	I can simplify algebraic expressions with exponents involving powers.	N.RN.1, 2	13.1-13.4
<b>Exponential Functions</b>	12	I can create, graph, and use exponential functions to solve problems.		14.3-14.4 15.1-15.5

Below are the key skills that students should possess by the end of the second semester of Intermediate Algebra. 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.

<b>Power Standard</b>	<b>#</b>	<b>Learning Target</b>	<b>CCSSM</b>	<b>Textbook Resource</b>
<b>Polynomial Operations</b>	13	I can add and subtract polynomials.	A.APR.1	1.1-1.4
	14	I can multiply polynomials.	A.APR.1	2.1-2.4
	15	I can factor trinomials.	A.SSE.3a	3.1-3.4 4.1-4.4
<b>Quadratics</b>	16	I can graph quadratic functions and show key features, such as intercepts, maximums, and minimums.	F.IF.4, 7a	5.3-5.4 6.1-6.4
	17	I can solve quadratic equations algebraically by taking square roots or factoring.	A.REI.4b A.SSE.3a	7.1-7.4
	18	I can solve quadratic equations using the quadratic formula.	A.REI.4b	8.1-8.4
<b>Linear/ Quadratic/ Exponential Models</b>	19	I can model data using linear, quadratic, and exponential functions.	F.LE.3	10.1-10.4
<b>Rational, Radical, and Absolute Value Equations</b>	20	I can solve multi-step equations with fractions.	A.REI.2	12.1-12.4
	21	I can solve equations with radicals or absolute value.		13.1-13.5
<b>Right Triangle Trigonometry</b>	22	I can solve right triangle applications using trigonometry.	G.SRT.6, 7, 8, 9, 10, 11	16.1-16.4 17.1-17.3