

Standards Plus Algebra I[®] Lesson Index

Topic	Lesson	Focus of Lesson	Standard
Integer Operations	1	Addition	(Number Sense 2.3 – 6 th)
	2	Addition	(Number Sense 2.3 – 6 th)
	3	Addition	(Number Sense 2.3 – 6 th)
	4	Addition	(Number Sense 2.3 – 6 th)
	A1	Assessment – Addition	(Number Sense 2.3 – 6 th)
	F1	Assessment Follow-up	(Number Sense 2.3 – 6 th)
	5	Subtraction	(Number Sense 2.3 – 6 th)
	6	Subtraction	(Number Sense 2.3 – 6 th)
	7	Subtraction	(Number Sense 2.3 – 6 th)
	A2	Assessment – Subtraction	(Number Sense 2.3 – 6 th)
	F2	Assessment Follow-up	(Number Sense 2.3 – 6 th)
	8	Multiplication	(Number Sense 2.3 – 6 th)
	9	Division	(Number Sense 2.3 – 6 th)
	10	Multiplication and Division	(Number Sense 2.3 – 6 th)
	A3	Assessment – Multiplication and Division	(Number Sense 2.3 – 6 th)
F3	Assessment Follow-up	(Number Sense 2.3 – 6 th)	
Maintenance	1	Adding/ subtracting/multiplying/dividing positive & negative integers	(Number Sense 2.3- 6 th)
	2	Adding/ subtracting/multiplying/dividing/simplifying positive & negative integers	(Number Sense 2.3- 6 th)
	3	Adding/ subtracting/multiplying/dividing/simplifying positive & negative integers	(Number Sense 2.3- 6 th)
	4	Adding/ subtracting/multiplying/dividing integers	(Number Sense 2.3- 6 th)
Exponents	1	Introduction to Exponents	(Algebra & Functions 2.1 – 7 th) (Number Sense 1.2 – 7 th)
	2	Multiplying With Like Bases	(Algebra & Functions 2.1 – 7 th) (Number Sense 2.1 – 7 th)
	3	Dividing With Like Bases	(Algebra & Functions 2.1 – 7 th) (Number Sense 2.1 – 7 th)
	A1	Assessment – Exponents	(Number Sense 2.1, 2.3 – 7 th) (Algebra & Functions 2.1 – 7 th)
	F1	Assessment Follow-up	(Number Sense 2.1, 2.3 – 7 th) (Algebra & Functions 2.1 – 7 th)
	4	Negative Exponents	(Number Sense 2.1 – 7 th)
	5	Raising an Exponential Expression to a Power	Algebra I 2.0
	6	Simplify Exponential Expressions Using the Rules of Exponents	Algebra I 2.0
	A2	Assessment – Exponents	(Number Sense 2.1 – 7 th) Algebra I 2.0
	F2	Assessment Follow-up	(Number Sense 2.1 – 7 th) Algebra I 2.0
	Maintenance	1	Review of Exponents lessons 1-3 - Exponents
2		Review of Exponents lessons 4 -6 - Exponent rules	(Number Sense 1.2, 2.1 – 7 th)
3		Review of Exponents lessons 1-6 - Exponent rules & simplifying exponential expressions	(Number Sense 2.1, 2.3 – 7 th) Algebra I 2.0

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Topic	Lesson	Focus of Lesson	Standard
Order of Operations	1	Review of rules and terms	(Algebra & Functions, 1.2 –7 th)
	2	Evaluating Algebraic Expressions	(Algebra & Functions, 1.2 –7 th)
	3	Evaluating Algebraic Expressions	(Algebra & Functions, 1.2 –7 th)
	A1	Assessment – Order of Operations	(Algebra & Functions, 1.2 –7 th)
	F1	Assessment Follow-up	(Algebra & Functions, 1.2 –7 th)
Maintenance	1	Simplifying numeric expression & evaluate algebraic expression using the order of operation rules	(Algebra & Functions, 1.2 –7 th)
	2	Simplifying numeric expression & evaluate algebraic expression using the order of operation rules	(Algebra & Functions, 1.2 –7 th)
Writing Expressions	1	Writing Expressions	(Algebra & Functions 1.1 – 7 th)
	2	Writing Equations	(Algebra & Functions 1.1 – 7 th)
	3	Writing Inequalities	(Algebra & Functions 1.1 – 7 th)
	A1	Assessment–Writing Expressions, Equations, and Inequalities	(Algebra & Functions 1.1 – 7 th)
	F1	Assessment Follow-up- Writing Expressions, Equations, and Inequalities	(Algebra & Functions 1.1 – 7 th)
Maintenance	1	Translating a phrase into an algebraic expression and a sentence into an equation or inequality, translating two sentences into a system of equations	(Algebra & Functions 1.1 – 7 th)
	2	Translating a phrase into an algebraic expression and a sentence into an equation or inequality, translating two sentences into a system of equations	(Algebra & Functions 1.1 – 7 th)
Linear Equations and Inequalities	1	Solving Linear Equations and Inequalities	Algebra I 4.0
	2	Solving Linear Equations and Inequalities	Algebra I 4.0
	3	Solving Linear Equations and Inequalities	Algebra I 4.0
	A1	Assessment – Solving Linear Equations & Inequalities	Algebra I 4.0
	F1	Assessment Follow-up	Algebra I 4.0
	4	Systems of Equations	Algebra I 9.0
	5	Systems of Equations	Algebra I 9.0
	6	Systems of Equations	Algebra I 9.0
	A2	Assessment – Systems of Equations	Algebra I 9.0
	F2	Assessment Follow-up	Algebra I 9.0
	7	Systems of Inequalities	Algebra I 9.0
	8	Systems of Inequalities	Algebra I 9.0
	9	Systems of Inequalities	Algebra I 9.0
	A3	Assessment – Systems of Inequalities	Algebra I 9.0
F3	Assessment Follow-up	Algebra I 9.0	
Maintenance	1	Review Linear Equations and Inequalities lessons 1-3 – Solving linear equations and inequalities	Algebra I 4.0
	2	Review Linear Equations and Inequalities lessons 4-6 – Systems of Equations	Algebra I 9.0
	3	Review Linear Equations and Inequalities lessons 7-9 – Systems of Inequalities	Algebra I 9.0

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Topic	Lesson	Focus of Lesson	Standard
Lines	1	Slope of a Line	(Algebra & Functions, 3.3– 7 th)
	2	Slope of a Line	(Algebra & Functions, 3.3– 7 th)
	3	Vertical and horizontal lines	(Algebra & Functions, 3.3– 7 th)
	A1	Assessment- Slope of a Line	(Algebra & Functions, 3.3– 7 th)
	F1	Assessment Follow-up	(Algebra & Functions, 3.3– 7 th)
	4	Calculating x- and y-intercepts	Algebra I 6.0
	5	Calculating x- and y-intercepts	Algebra I 6.0
	6	x- and y-intercepts for vertical and horizontal lines	Algebra I 6.0
	A2	Assessment- Calculating x- and y-intercepts	Algebra I 6.0
	F2	Assessment Follow-up	Algebra I 6.0
	7	Graphing a line using the slope and the y- intercept	Algebra I 6.0
	8	Graphing a line using the slope and the y- intercept	Algebra I 6.0
	9	Parallel and Perpendicular Lines	Algebra I 8.0
	A3	Assessment- Graphing a line using the slope and y-intercept/Parallel and perpendicular lines	Algebra I 6.0, 8.0
	F3	Assessment Follow-up	Algebra I 6.0, 8.0
	10	Verifying that a point lies on a line/deriving the equation of a line	Algebra I 7.0
	11	Verifying that a point lies on a line/deriving the equation of a line	Algebra I 7.0
	12	Deriving equation of a line using the point-slope formula	Algebra I 7.0
	A4	Assessment- Verifying that a point lies on a line, Deriving the equation of a line	Algebra I 7.0
	F4	Assessment Follow-up	Algebra I 7.0
Maintenance	1	Graph lines by calculating & graphing the x- and y- intercepts	Algebra I 6.0
	2	Graphing a line by finding the x- and y- intercepts & by using the slope-intercept model	Algebra I 6.0
	3	Finding coordinates, identifying slope, review slopes of parallel & perpendicular lines, deriving equation of a line when given coordinates of two points, using point-slope formula to find equation of a line.	Algebra I 6.0, 7.0, 8.0
Rational Expressions	1	Reducing	Algebra I 12.0
	2	Multiplying	Algebra I 13.0
	3	Dividing	Algebra I 13.0
	A1	Assessment- Rational Expressions	Algebra I 12.0, 13.0
	F1	Assessment Follow-up	Algebra I 12.0, 13.0
	4	Addition and Subtraction	Algebra I 13.0
	5	Addition and Subtraction	Algebra I 13.0
	6	Addition and Subtraction	Algebra I 13.0
	A2	Assessment- Rational Expressions	Algebra I 13.0
	F2	Assessment Follow –up	Algebra I 13.0
Maintenance	1	Adding & subtracting rational expression with like or unlike denominators and multiplying and dividing and simplifying rational expressions using factoring	Algebra I 12.0, 13.0

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Topic	Lesson	Focus of Lesson	Standard
Absolute Values	1	Absolute Values- Equations	Algebra I 3.0
	2	Absolute Values- Inequalities, Less Than	Algebra I 3.0
	3	Absolute Values- Inequalities, Greater Than	Algebra I 3.0
	AI	Assessment- Absolute Values- Equations/Inequalities	Algebra I 3.0
	FI	Assessment Follow-up	Algebra I 3.0
Maintenance	1	Solving absolute value equations and inequalities	Algebra I 3.0
Radicals	1	Square Roots	(Number Sense 2.4 - 7 th)
	2	Estimating Square Roots	(Number Sense 2.4 - 7 th)
	3	Fractional Exponents	Algebra I 2.0
	AI	Assessment- Radicals	(Number Sense 2.4 - 7 th) Algebra I 2.0
	FI	Assessment Follow-up	(Number Sense 2.4 - 7 th) Algebra I 2.0
Maintenance	1	Taking square roots, estimating square roots, using rational exponents	(Number Sense 2.4 - 7 th) Algebra I 2.0
	2	Square roots/find the 2 integers between which the root that is not a perfect square lies/writing expression in both exponential & radical form/finding the value of expressions	(Number Sense 2.4 - 7 th) Algebra I 2.0
	3	Square roots/find the 2 integers between which the root that is not a perfect square lies/writing expression in both exponential & radical form/finding the value of expressions	(Number Sense 2.4 - 7 th) Algebra I 2.0
Word Problems	1	Identifying Relevant Information	Algebra I 5.0
	2	Defining Variables	Algebra I 5.0
	3	Writing an Equation	Algebra I 5.0
	AI	Assessment – Word Problems	Algebra I 5.0
	FI	Assessment Follow-up	Algebra I 5.0
	4	Writing an Equation (#2)	Algebra I 5.0
	5	Solve Completely	Algebra I 5.0, 15.0
	6	Work Problems	Algebra I 5.0, 15.0
	A2	Assessment – Word Problems	Algebra I 5.0, 15.0
	F2	Assessment Follow-up	Algebra I 5.0, 15.0
	7	Work and RTD Problems	Algebra I 5.0, 15.0
	8	Percent Mixture Problems	Algebra I 5.0, 15.0
	9	Mixture Problems	Algebra I 5.0, 15.0
	A3	Assessment – Word Problems	Algebra I 5.0, 15.0
	F3	Assessment Follow-up	Algebra I 5.0, 15.0
Maintenance	1	Review the first five steps for solving word problems	Algebra I 5.0
	2	Review the seven steps for solving word problems & practice two mixture word problems	Algebra I 5.0, 15.0
	3	Review the seven steps for solving word problems & practice two word problems	Algebra I 5.0, 15.0
	4	Review the seven steps for solving word problems & practice two work word problems, & a rate/time/distance word problem	Algebra I 5.0, 15.0
	5	Used seven steps for solving word problems to solve a rate/time/distance, a work word problem, & percent mixture word problem	Algebra I 5.0, 15.0

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Topic	Lesson	Focus of Lesson	Standard
Polynomials	1	Adding and Subtracting	Algebra I, 10.0
	2	Adding, Subtracting, and Multiplying	Algebra I, 10.0
	3	Division	Algebra I, 10.0
	A1	Assessment- Adding/Subtracting/Multiplying/Dividing	Algebra I, 10.0
	F1	Assessment Follow-up	Algebra I, 10.0
	4	Polynomial Long Division	Algebra I, 10.0
	5	Polynomial Long Division	Algebra I, 10.0
	6	Polynomial Dividing	Algebra I, 10.0
	A2	Assessment- Dividing	Algebra I, 10.0
	F2	Assessment Follow-up	Algebra I, 10.0
Maintenance	1	Adding, subtracting, multiplying, & dividing polynomials, dividing polynomials by monomials, dividing a quadratic trinomial (that is factorable) by a binomial	Algebra I, 10.0
	2	Dividing polynomials by binomials using polynomial long division	Algebra I, 10.0
Factoring	1	Prime Factors of a Number	(Number Sense 4.2 – 4 th) (Number Sense 1.4 – 5 th)
	2	Greatest Common Factor	(Number Sense 2.4– 6 th)
	3	Binomials	Algebra I 11.0
	A1	Assessment – Factoring Numbers	(Number Sense 1.4/5 th 2.4/6 th) Algebra I 11.0
	F1	Assessment Follow-up	(Number Sense 1.4/5 th 2.4/6 th) Algebra I 11.0
	4	Quadratic Trinomials	Algebra I 11.0
	5	Quadratic Trinomials	Algebra I 11.0
	6	Quadratic Trinomials	Algebra I 11.0
	A2	Assessment – Quadratic Trinomials	Algebra I 11.0
	F2	Assessment Follow-up – Quadratic Trinomials	Algebra I 11.0
	7	Perfect Square Trinomials	Algebra I 11.0
	8	Perfect Square Trinomials	Algebra I 11.0
	9	Difference of Squares	Algebra I 11.0
	A3	Assessment – Recognizing a perfect square and the difference of two squares	Algebra I 11.0
	F3	Assessment Follow-up	Algebra I 11.0
	10	Quadratic Trinomials	Algebra I 11.0
	11	Quadratic Trinomials	Algebra I 11.0
	12	Quadratic Trinomials	Algebra I 11.0
	A4	Assessment - Quadratic Trinomials	Algebra I 11.0
	F4	Assessment Follow-up- Quadratic Trinomials	Algebra I 11.0
Maintenance	1	Review of factoring lessons 1-3 -Factoring quadratic trinomials with a leading coefficient of 1	(Number Sense 1.4/5 th , 2.4/6 th) Algebra I 11.0
	2	Review of factoring lessons 4-6 -Factoring quadratic trinomials with a leading coefficient of 1	Algebra I 11.0
	3	Review of factoring lessons 1-9 -Factoring binomials, trinomials, and quadratic trinomials	Algebra I 11.0
	4	Review of factoring lessons 10-12 Factoring quadratic trinomials with a leading coefficient greater than 1	Algebra I 11.0

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Topic	Lesson	Focus of Lesson	Standard
Quadratic Functions	1	Graphing	Algebra I, 21.0
	2	Identify Vertex / Graph	Algebra I, 21.0
	3	Complete the Square / Graph	Algebra I, 21.0
	A1	Assessment- Graphing Quadratic Equations	Algebra I, 21.0
	F1	Assessment Follow-up	Algebra I, 21.0
	4	Graphing	Algebra I, 21.0
	5	Graphing Incomplete Quadratic Equations	Algebra I, 21.0
	6	Graphing Quadratic Equations and Identify Roots	Algebra I, 21.0
	A2	Assessment- Identify Vertex and Graph	Algebra I, 21.0
	F2	Assessment Follow-up	Algebra I, 21.0
Maintenance	1	Review Quadratic Functions lessons 1-3 – What quadratic equations are, how to find the vertex and graph the parabola	Algebra I, 21.0
	2	Review Quadratic Functions lessons 4-6 – Finding the vertex & graphing incomplete quadratic equations & quadratic equations where $a = -1$, finding the x - intercepts or roots of the equation by graphing	Algebra I, 21.0
Quadratic Equations	1	Completing the Square	Algebra I 14.0
	2	Completing the Square	Algebra I 14.0
	3	Completing the Square	Algebra I 14.0
	A1	Assessment – Completing the Square	Algebra I 14.0
	F1	Assessment Follow-up	Algebra I 14.0
	4	The Quadratic Formula	Algebra I 20.0
	5	The Quadratic Formula	Algebra I 20.0
	6	The Quadratic Formula	Algebra I 20.0
	A2	Assessment – The Quadratic Formula	Algebra I 20.0
	F2	Assessment Follow-up	Algebra I 20.0
	7	Applications	Algebra I 23.0
	8	Applications	Algebra I 23.0
	9	Applications	Algebra I 23.0
	A3	Assessment – Applications	Algebra I 23.0
	F3	Assessment Follow-up	Algebra I 23.0
Maintenance	1	Review Quadratic Equations lessons 1-3 – Completing the Square	Algebra I 14.0
	2	Review Quadratic Equations lessons 4-6 – The Quadratic Formula	Algebra I 20.0
	3	Review Quadratic Equations lessons 7-9 – Applications	Algebra I 23.0