LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
Unit 1					
Unit 1, Concept 1 - Understand the language of algebra	ALGEBRA 1 - 1.0 Students identify and use the arithmetic properties of subsets of integers and rational, irrational, and real numbers, including closure properties for the four basic arithmetic operations where applicable.	J	1	2	1
		J	1	4	2-4
		J	2	2	1-4
		J	2	3	3-4
		J	5	1	4
		I	4	3	1-4
		I	4	4	1-4
		H	2	4	1-4
Unit 1, Concept 1 - Understand the language of algebra	ALGEBRA 1 - 1.1 Students use properties of numbers to demonstrate whether assertions are true or false.	J	2	1	1, 3
		J	2	2	4
		J	4	2	1
		I	4	3	1-4
		I	4	4	1
		H	2	4	2-3
Unit 1, Concept 1 - Understand the language of algebra	 ALGEBRA 1 – 2.0 Students understand and use such operations as taking the opposite, finding the reciprocal, taking a root, and raising to a fractional power. They understand and use the rules of exponents.	J	1	3	2-4

 identifies the key standards for Algebra

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Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
		J	1	4	1
		J	2	1	1
		J	5	4	1-4
		I	2	3	4
		H	1	1	1-2
		H	3	2	4
Unit 1, Concept 1 - Understand the language of algebra	ALGEBRA 1 – 16.0 Students understand the concepts of a relation and a function, determine whether a given relation defines a function, and give pertinent information about given relations and functions.	J	2	1	4
Unit 1, Concept 1 - Understand the language of algebra	ALGEBRA 1 - 17.0 Students determine the domain of independent variables and the range of dependent variables defined by a graph, a set of ordered pairs, or a symbolic expression.	J	4	1	1-4
Unit 1, Concept 1 - Understand the language of algebra	ALGEBRA 1 – 24.0 Students use and know simple aspects of a logical argument.	J	2	3	3-4
		J	4	2	2
		I	4	3	2-4
		I	4	4	4
		H	2	4	1
Unit 1, Concept 1 - Understand the language of algebra	ALGEBRA 1 – 25.1 Students use properties of numbers to construct simple, valid arguments (direct and indirect) for, or formulate counterexamples to, claimed assertions.	J	2	1	1

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Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
		J	4	1	4
		J	4	2	2
Unit 1, Concept 2 - Understand and solve linear equations	ALGEBRA 1 – 4.0 Students simplify expressions before solving linear equations and inequalities in one variable, such as $3(2x - 5) + 4(x - 2) = 12$.	J	2	1	3-4
		J	2	2	2-4
		J	2	3	1
		I	4	4	2-4
		H	2	4	1-4
Unit 1, Concept 2 - Understand and solve linear equations	ALGEBRA 1 – 5.0 Students solve multistep problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step.	J	2	3	3-4
		J	2	4	2-3
		J	4	2	4
		J	4	3	2-4
		J	5	2	4
Unit 1, Concept 3 - Understand and graph linear equations, functions and patterns	ALGEBRA 1 – 6.0 Students graph a linear equation and compute the x- and y-intercepts (e.g., graph $2x + 6y = 4$). They are also able to sketch the region defined by linear inequalities (e.g., they sketch the region defined by $2x + 6y < 4$).	J	2	1	4
		J	4	1	2, 5
		J	4	3	1-4
Unit 1, Concept 3 - Understand and graph linear equations, functions and patterns	ALGEBRA 1 - 7.0 Students verify that a point lies on a line, given an equation of the line. Students are able to derive linear equations by using the point-slope	J	4	1	3-4

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LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
	formula.				
		J	4	2	2
		J	4	3	1
Unit 1, Concept 3 - Understand and graph linear equations, functions and patterns	ALGEBRA 1 – 16.0 Students understand the concepts of a relation and a function, determine whether a given relation defines a function, and give pertinent information about given relations and functions.	J	2	1	1-4
		J	4	1	1, 4
		J	4	2	2-4
Unit 1, Concept 3 - Understand and graph linear equations, functions and patterns	ALGEBRA 1 - 17.0 Students determine the domain of independent variables and the range of dependent variables defined by a graph, a set of ordered pairs, or a symbolic expression.	J	2	1	4
		J	4	1	1-4
		H	2	2	2, 4
Unit 1, Concept 3 - Understand and graph linear equations, functions and patterns	ALGEBRA 1 - 18.0 Students determine whether a relation defined by a graph, a set of ordered pairs, or a symbolic expression is a function and justify the conclusion.	J	2	1	1-4
		J	2	3	3-4
		J	4	1	2-4
		J	4	3	1-4
Unit 2					
Unit 2, Concept 1 - Understand, analyze, and graph linear equations	 ALGEBRA 1 – 6.0 Students graph a linear equation and compute the x- and y-intercepts (e.g., graph $2x + 6y = 4$). They are also able to sketch the region defined by linear inequalities (e.g., they sketch the region defined by $2x + 6y < 4$).	J	4	1	1-4

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LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
		J	4	3	1-4
Unit 2, Concept 1 - Understand, analyze, and graph linear equations	ALGEBRA 1 - 7.0 Students verify that a point lies on a line, given an equation of the line. Students are able to derive linear equations by using the point-slope formula.	J	4	2	1-4
Unit 2, Concept 1 - Understand, analyze, and graph linear equations	ALGEBRA 1 – 8.0 Students understand the concepts of parallel lines and perpendicular lines and how their slopes are related. Students are able to find the equation of a line perpendicular to a given line that passes through a given point.	J	4	3	3-4
Unit 2, Concept 2 - Understand and solve systems of linear equations	ALGEBRA 1 - 9.0 Students solve a system of two linear equations in two variables algebraically and are able to interpret the answer graphically. Students are able to solve a system of two linear inequalities in two variables and to sketch the solution sets.	J	2	4	4
		J	4	2	4
Unit 2, Concept 2 - Understand and solve systems of linear equations	ALGEBRA 1 – 15.0 Students apply algebraic techniques to solve rate problems, work problems, and percent mixture problems.	J	4	3	1-4
		J	5	2	1-4
		H	2	1	2-4
		H	2	3	1-4
		I	3	1	1-4
Unit 2, Concept 3 - Understand, solve and graph linear inequalities	ALGEBRA 1 - 3.0 Students solve equations and inequalities involving absolute values.	J	1	1	3

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LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
Unit 2, Concept 3 - Understand, solve and graph linear inequalities	ALGEBRA 1 – 4.0 Students simplify expressions before solving linear equations and inequalities in one variable, such as $3(2x - 5) + 4(x - 2) = 12$.	J	4	1	1-4
		H	2	4	1-4
Unit 2, Concept 3 - Understand, solve and graph linear inequalities	ALGEBRA 1 – 5.0 Students solve multistep problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step.	J	4	2	4
		J	4	3	2-4
Unit 2, Concept 3 - Understand, solve and graph linear inequalities	ALGEBRA 1 - 9.0 Students solve a system of two linear equations in two variables algebraically and are able to interpret the answer graphically. Students are able to solve a system of two linear inequalities in two variables and to sketch the solution sets.	J	4	2	4
Unit 3					
Unit 3, Concept 1 - Understand operations on polynomials	ALGEBRA 1 – 2.0 Students understand and use such operations as taking the opposite, finding the reciprocal, taking a root, and raising to a fractional power. They understand and use the rules of exponents.	J	2	2	3-4
		J	3	4	4
		J	3	3	4
Unit 3, Concept 1 - Understand operations on polynomials	ALGEBRA 1 - 10.0 Students add, subtract, multiply, and divide monomials and polynomials. Students solve multistep problems, including word problems, by using these techniques.	J	4	3	4
		J	4	4	1-4
Unit 3, Concept 2 - Understand factoring of polynomials	ALGEBRA 1 – 11.0 Students apply basic factoring techniques to second- and simple third-degree	J	3	2	1-3

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LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
	polynomials. These techniques include finding a common factor for all terms in a polynomial, recognizing the difference of two squares, and recognizing perfect squares of binomials.				
Unit 3, Concept 2 - Understand factoring of polynomials	 ALGEBRA 1 - 14.0 Students solve a quadratic equation by factoring or completing the square.	J	4	4	1-4
		J	1	3	3-4
		J	1	4	1-3
Unit 3, Concept 3 - Understand and use quadratic functions	 ALGEBRA 1 - 14.0 Students solve a quadratic equation by factoring or completing the square.	J	2	2	4
		J	4	4	1-4
Unit 3, Concept 3 - Understand and use quadratic functions	 ALGEBRA 1 – 19.0 Students know the quadratic formula and are familiar with its proof by completing the square.	J	2	2	4
		J	4	4	2-4
Unit 3, Concept 3 - Understand and use quadratic functions	 ALGEBRA 1 – 20.0 Students use the quadratic formula to find the roots of a second-degree polynomial and to solve quadratic equations.	J	1	4	3
Unit 3, Concept 3 - Understand and use quadratic functions	 ALGEBRA 1 – 21.0 Students graph quadratic functions and know that their roots are the *x*-intercepts.	J	4	4	2
Unit 3, Concept 3 - Understand and use quadratic functions	ALGEBRA 1 - 22.0 Students use the quadratic formula or factoring techniques or both to determine whether the graph of a quadratic function will intersect the *x*-axis in zero, one, or two points.	J	4	4	2-4

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LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
Unit 3, Concept 3 - Understand and use quadratic functions	ALGEBRA 1 – 23.0 Students apply quadratic equations to physical problems, such as the motion of an object under the force of gravity.	J	4	4	2
Unit 4					
Unit 4, Concept 1 - Understand radical expressions	ALGEBRA 1 – 2.0 Students understand and use such operations as taking the opposite, finding the reciprocal, taking a root, and raising to a fractional power. They understand and use the rules of exponents.	J	5	4	1-2
		J	1	4	3-4
Unit 4, Concept 1 - Understand radical expressions	ALGEBRA 1 - 17.0 Students determine the domain of independent variables and the range of dependent variables defined by a graph, a set of ordered pairs, or a symbolic expression.	N/A	N/A	N/A	N/A
Unit 4, Concept 1 - Understand radical expressions	ALGEBRA 1 – 19.0 Students know the quadratic formula and are familiar with its proof by completing the square.	J	1	4	3
Unit 4, Concept 2 - Understand Rational Expressions and Equations	ALGEBRA 1 - 10.0 Students add, subtract, multiply, and divide monomials and polynomials. Students solve multistep problems, including word problems, by using these techniques.	J	4	3	3
Unit 4, Concept 2 - Understand Rational Expressions and Equations	ALGEBRA 1 – 12.0 Students simplify fractions with polynomials in the numerator and denominator by factoring both and reducing them to the lowest terms.	J	4	2	2
Unit 4, Concept 2 - Understand Rational Expressions and Equations	ALGEBRA 1 – 13.0 Students add, subtract,	J	3	2	3-4

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LAUSD UNITS					
Unit, Concept	**Algebra 1 Standards**	***Number Worlds***			
		Level	**Unit**	**Week**	**Lesson(s)**
	multiply, and divide rational expressions and functions. Students solve both computationally and conceptually challenging problems by using these techniques.				
		J	4	2	2-4
		J	5	2	3-4
		I	4	3	3-4
Unit 4, Concept 2 - Understand Rational Expressions and Equations	 ALGEBRA 1 – 15.0 Students apply algebraic techniques to solve rate problems, work problems, and percent mixture problems.	J	4	3	1-2
		J	5	2	1-4
		I	3	2	1-4
		H	2	1	2-4

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