LAUSD UNITS				
Algebra Readiness Standards	***California Number Worlds ©2008***			
	Level	**Unit**	**Week**	**Lesson(s)**
Unit 1				
Understand the composition of whole numbers				
7NS 1.2 – Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	J	1	1	2-4
	J	1	2	2-4
	J	1	3	1-4
	J	1	4	1
	I	1	1	1-4
	H	1	1	2
	H	4	2	2
	H	4	3	2-4
	H	5	4	1
7AF 1.2 – Use the correct order of operations to evaluate algebraic expressions such as $3(2x + 5)^2$.	J	1	3	3-4
	J	1	4	3-4
	J	2	1	2-4
	J	2	2	4
	I	4	3	1
7AF 1.3 – Simplify numerical expressions by applying properties of rational numbers (e.g., identity, inverse, distributive, associative, commutative) and justify the process used.	J	1	2	1
	J	2	1	1-4
	J	2	2	2-4
	I	4	4	1-4

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	Level	**Unit**	**Week**	**Lesson(s)**
	H	2	4	3
	H	4	1	1-4
	H	4	3	2
7AF 2.1 – Interpret positive whole-number powers as repeated multiplication and negative whole-number powers as repeated division or multiplication by the multiplicative inverse. Simplify and evaluate expressions that include exponents.	J	1	3	1-4
	I	1	1	1-4
	H	1	1	1-2
Understand integers and operations on integers				
7NS 1.2 – Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	J	1	1	2-4
	J	1	2	1-4
	J	1	3	2-4
	I	2	1	2-3
7NS 2.1 – Understand negative whole-number exponents. Multiply and divide expressions involving exponents with a common base.	J	1	3	2-4
	J	1	4	2
7NS 2.5 – Understand the meaning of the absolute value of a number; interpret the absolute value as the distance of the number from zero on a number line; and determine the absolute value of real numbers.	J	1	1	1-3
	I	1	4	1
7AF 2.1 – Interpret positive whole-number powers as repeated multiplication and negative whole-number powers as repeated division or multiplication by the multiplicative inverse. Simplify and evaluate expressions that include exponents.	J	1	3	1-4

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Algebra Readiness Standards	***California Number Worlds ©2008***			
	Level	**Unit**	**Week**	**Lesson(s)**
Unit 2				
Understand the operations on fractions and mixed numbers				
7NS 1.2 – Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	J	3	2	1-4
	J	6	4	2-4
	I	2	2	1-4
	I	2	3	1-4
	I	3	3	1-4
	H	3	1	1
	H	3	2	1
7NS 2.2 – Add and subtract fractions by using factoring to find common denominators.	H	3	1	2-4
	I	1	1	1-3
	J	3	2	1-2
Algebra 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	2-3
	H	3	2	4
Understand the composition of decimals and operations on decimals				
7NS 1.2 – Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	H	1	4	3-4
	H	3	3	1-4
	H	3	4	1-4

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	Level	**Unit**	**Week**	**Lesson(s)**
	H	4	2	3
	I	2	4	1-4
	J	3	1	2-4
7NS 1.3 – Convert fractions to decimals and percents and use these representations in estimations, computations, and applications.	J	3	2	1
	J	3	3	2-3
	J	3	4	1-2
	J	6	3	1-4
	I	1	2	2
	I	1	3	1
	I	1	4	3-4
	I	3	1	1, 3-4
	H	1	3	1-4
	H	6	4	2-3
7NS 1.5 – St Know that every rational number is either a terminating or a repeating decimal and be able to convert terminating decimals into reduced fractions.	J	3	4	2
	I	1	3	4
Understand ratios and proportions				
7AF 4.2 - Solve multistep problems involving rate, average speed, distance, and time or a direct variation.	J	3	4	3-4

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	Level	**Unit**	**Week**	**Lesson(s)**
	J	4	1	1, 3-4
	J	4	2	3
	J	4	3	1-2
	J	5	2	1-4
	J	6	1	1
	I	3	1	2
	I	3	2	2-4
	I	3	3	2-4
	I	3	4	1
	I	6	4	1-2, 4
	H	4	2	4
7MG 1.2 – Construct and read drawings and models made to scale.	J	5	3	3-4
	I	3	3	2, 4
7MG 1.3 - Use measures expressed as rates (e.g., speed, density) and measures expressed as products (e.g., person-days) to solve problems; check the units of the solutions; and use dimensional analysis to check the reasonableness of the answer.	J	3	3	1
	J	3	4	3-4
	J	5	2	1-4
	I	3	3	3-4

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	Level	**Unit**	**Week**	**Lesson(s)**
Unit 3				
Understand percents				
7NS 1.3 - Convert fractions to decimals and percents and use these representations in estimations, computations, and applications.	J	3	2	1
	J	3	3	2-4
	J	3	4	1-3
	I	1	2	2
	I	3	1	1-3
	I	6	4	2
	H	1	3	1, 3-4
7NS 1.6 – Calculate the percentage of increases and decreases of a quantity.	J	3	3	2-4
7NS 1.7 – Solve problems that involve discounts, markups, commissions, and profit and compute simple and compound interest.	J	3	3	2-4
	J	3	4	1-2
	I	3	1	3-4
	H	1	3	1-2
Understand how to solve linear equations including simplifying expressions				
7AF 1.1 – Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description (e.g., three less than a number, half as large as area A).	J	2	3	1-4
	J	2	4	1-4
	J	4	1	1-4

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	Level	**Unit**	**Week**	**Lesson(s)**
	I	2	1	3
	I	4	1	3
	I	4	4	1
	I	4	4	4
	H	2	2	1-4
	H	2	3	1-4
	H	2	4	1-4
 7AF 1.3 – Simplify numerical expressions by applying properties of rational numbers (e.g., identity, inverse, distributive, associative, commutative) and justify the process used.	J	1	2	1
	J	2	1	1-3
	J	2	2	2-4
	I	4	1	1, 3
	I	4	3	2-3
	I	4	4	3
	H	4	1	1-4
 7AF 4.1 – Solve two-step linear equations and inequalities in one variable over the rational numbers, interpret the solution or solutions in the context from which they arose, and verify the reasonableness of the results.	J	2	2	1-4
	J	2	3	1-4
	J	2	4	2-4
	I	4	3	4

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	Level	**Unit**	**Week**	**Lesson(s)**
7AF 4.2 - Solve multistep problems involving rate, average speed, distance, and time or a direct variation.	J	3	4	3-4
	J	4	1	1
	J	5	2	1-4
7NS 2.1 – Understand negative whole-number exponents. Multiply and divide expressions involving exponents with a common base.	J	1	3	2-4
	J	4	4	4
7NS 2.3 - Multiply, divide, and simplify rational numbers by using exponent rules.	J	1	3	1-4
	J	2	1	3
	J	4	4	3
Algebra 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	1	3
	J	2	2	4
	J	3	4	1-4
	I	3	3	4
	H	3	2	4
Understand inequalities				
7AF 1.1 – Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description (e.g., three less than a number, half as large as area A).	J	2	4	1, 3
7AF 4.1 – Solve two-step linear equations and inequalities in one variable over the rational numbers, interpret the solution or solutions in the context from which they arose, and verify the reasonableness of the results.	J	2	4	2-4

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	Level	**Unit**	**Week**	**Lesson(s)**
Unit 4				
Understand linear functions and graph lines				
7AF 1.5 – Represent quantitative relationships graphically and interpret the meaning of a specific part of a graph in the situation represented by the graph.	J	2	4	1
	J	5	2	2
	I	4	2	3
	H	6	3	1
7AF 3.1 – Graph functions of the form $y = nx^2$ and $y = nx^3$ and use in solving problems.	J	4	2	4
	J	4	4	1-4
	I	4	1	4
	I	4	2	2
	H	2	2	2, 4
	H	2	3	1-4
7AF 3.3 – Graph linear functions, noting that the vertical change (change in *y*-value) per unit of horizontal change (change in *x*-value) is always the same and know that the ratio ("rise over run") is called the slope of a graph.	J	4	1	3-4
	J	4	2	1-4
	J	4	3	1-4
	I	4	2	4
7AF 3.4 – Plot the values of quantities whose ratios are always the same (e.g., cost to the number of an item, feet to inches, circumference to diameter of a circle). Fit a line to the plot and understand that the slope of the line equals the ratio of the quantities.	J	2	1	4

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	Level	**Unit**	**Week**	**Lesson(s)**
	J	4	1	1-2
	J	4	2	1
	J	4	4	3
	H	2	1	3-4
Understand Pythagorean Theorem				
7MG 3.3 – Know and understand the Pythagorean theorem and its converse and use it to find the length of the missing side of a right triangle and the lengths of other line segments and, in some situations, empirically verify the Pythagorean theorem by direct measurement.	J	5	4	1-4
Understand algebraic problem solving (linear applications) involving multistep problems				
Algebra 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.	H	3	2	4
	J	2	1	3
	J	2	2	4
Algebra 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	2	1, 4
	J	2	3	1-2, 4
	J	2	4	2-4
	J	4	3	1-2
Algebra 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	3-4

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	Level	**Unit**	**Week**	**Lesson(s)**
	I	4	4	3
	H	2	4	1-3