

Lake Elsinore Unified School District

Pacing Guide & Benchmark Assessment Schedule – Algebra 1 Essentials

STANDARDS TO BE TAUGHT* * = Key Standard	SKILLS	ACADEMIC & CONTENT LANGUAGE	TEXTBOOK DAYS OF INSTRUCTION / NOTES	Days ***
			Prentice Hall 2008 Ed.	
<p>1.0 Students identify and use the arithmetic properties of subsets of integers, including closure properties for the four basic arithmetic operations where applicable:</p> <p style="padding-left: 20px;">1.1 Students use properties of numbers to demonstrate whether assertions are true or false.</p> <p>2.0 Students understand and use such operations as taking the opposite, finding the reciprocal, and taking a square root of a perfect square.</p>	<p>Intro to Algebra, Integers and Rational Numbers</p> <ul style="list-style-type: none"> ▪ Use the properties of multiplication and addition to manipulate a problem ▪ Evaluate and simplify expression ▪ Checking a solution of an equation ▪ Simplify using the distributive property (Prentice Hall book) ▪ Simplify expressions according to the order of operations ▪ Add, subtract, multiply, and divide integers ▪ Simplify by combining like terms ▪ Simplify using the distributive property with negative numbers 	<p>Variable, Algebraic Expression, Substituting, Evaluate, Grouping Symbols, Equivalent Expressions, Identity Property, Multiplicative Identity, Simplify, Distributive, Positive and Negative Integers, Opposite, Difference, Quotient, Reciprocals, Parenthesis</p>	<p>Chapter 1</p> <p>Measuring Up Lessons 1, 3, 4, 5, 6, 8, 9</p> <p>PH Section 1.7</p>	13 days
<p>4.0 Students simplify expressions before solving linear equations.</p> <p>5.0 Students solve multi-step problems, including word problems, involving linear equations in one variable and provide justification for each step.</p>	<p>Solving Equations Unit</p> <ul style="list-style-type: none"> ▪ Solve multi-step equations ▪ Solve word problems involving consecutive integers and perimeter 	<p>Addition Property of Equality, Multiplication Property of Equality, consecutive integers, perimeter</p>	<p>Chapter 2</p> <p>2:1-3 2:5 Perimeter and consecutive integers</p>	14 days

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<p>6.0 Students graph a linear equation and compute the x-intercepts and y-intercepts.</p> <p>7.0 Students verify that a point lies on a line, given an equation of a line. Students are able to derive a linear equation by using the point-slope formula</p> <p>8.0 Students understand the concepts of parallel and perpendicular lines and how their slopes are related.</p>	<p>Graphing Unit</p> <ul style="list-style-type: none"> ▪ Graph the equation of a line ▪ Write the equation of a line ▪ Finding the slope of a line using the slope formula ▪ Identifying the slope and y-intercepts ▪ Graph equations 	<p>Graph, X-axis, Y-axis, Origin, Coordinate Axes, Coordinate Plane, X-coordinate, Y-coordinate, Quadrants, Linear Equations, X-Intercept, Y-Intercept, Standard Form, Run, Rise, Slope, Slope-Intercept Equation, Point-Slope Equation, Parallel Lines, Perpendicular Lines</p>	<p>Chapter 5</p> <p>Measuring Up Lessons 36 & 37</p> <p>PH 5:1-5</p> <p>Slope from graph and formula</p>	20 days
<p>9.0 Students solve a system of two linear equations in two variables algebraically and are able to interpret the answer graphically.</p> <p>15.0 Students apply algebraic techniques to solve rate problems and percent problems. (Multiple choice only- select reasonable answers)</p>	<p>Solving Linear Systems</p> <ul style="list-style-type: none"> ▪ Solving by graphing systems of linear equations ▪ Solving systems of equations by graphing, substitution, and linear combinations (a.k.a. addition/mult or elimination) 	<p>System of Equations, Solution, Consistent, Dependent, Inconsistent, Substitution Method, Addition Method/Elimination Method, Linear Combination, System of Inequalities</p>	<p>Chapter 6</p> <p>PH 6:1-3</p> <p>Supplement extra problems from workbook</p>	14 days
<p>*2.0 Students understand and use such operations as taking the opposite, finding the reciprocal, and taking a square root of a perfect square. They understand and use the rules of exponents.</p>	<p>Exponents</p> <ul style="list-style-type: none"> • Rules of exponents 	<p>Exponential Notation</p>	<p>Chapter 7</p> <p>PH 7:1, 3, 4, 5</p>	14 days

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	<p>Review for Semester Final *2 days should be used throughout the semester for Benchmarks and Assessment *5 days Final Review/Midterm</p>		5 days
<p>*10.0 Students add, subtract, multiply, and divide monomials and polynomials.</p> <p>11.0 Students apply basic factoring techniques to second and simple third degree 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</p> <p>14.0 Students solve a quadratic equation by factoring.</p>	<p>Polynomials</p> <ul style="list-style-type: none"> ▪ Multiplying and dividing monomials. ▪ Identifying and simplifying polynomials ▪ Adding and subtracting polynomials. <p>Factoring Polynomials</p> <ul style="list-style-type: none"> ▪ Factoring common monomial factors ▪ Factoring trinomials ▪ Recognizing and factoring the difference of squares and trinomial squares ▪ Using factoring to solve equations 	<p>Monomial, Constant, Binomial, Trinomial, Coefficient, Degree of a Term, Degree of a Polynomial, Leading Term, Leading Coefficient, Descending Order, Ascending Order, Evaluating the Polynomial, Additive Inverse, FOIL Factorization, Relatively Prime, Difference of Two Squares, Factoring Completely, Trinomial Squares, Root, Zeros</p>	<p>Chapter 8 PH 8:1-8</p> <p>22 days</p>
<p>12.0 Students simplify fractions with polynomials in the numerator and denominator by factoring both and reducing them to lowest terms</p> <p>13.0 Students add, subtract, multiply and divide rational expressions and functions.</p>	<p>Rational Expressions</p> <ul style="list-style-type: none"> ▪ Simplifying rational expressions ▪ Multiplying rational expressions ▪ Dividing rational expressions ▪ Adding rational expressions ▪ Subtracting rational expressions ▪ Dividing Polynomials by Monomials ▪ Work word problems 	<p>Rational Expressions, Simplest Form</p>	<p>Chapter 11 Supplement simplifying, adding, subtracting, multiplying, and dividing fractions from intervention kit 11:1, 2 11:4 Common Denominators only</p> <p>14 days</p>

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<p>*14.0 Students solve a quadratic equation by factoring.</p> <p>19.0 Students know the quadratic formula</p> <p>20.0 Students use the quadratic formula to find roots of a second-degree polynomials and to solve quadratic equations</p> <p>21.0 Students graph quadratic functions and know that their roots are x-intercepts</p> <p>23.0 Students apply quadratic equations to physical problems, such as motion of an object under the force of gravity.</p>	<p>Solving Quadratic Equations</p> <ul style="list-style-type: none"> ▪ Simplifying radicals ▪ Solving quadratic equations by factoring ▪ Completing the square ▪ Deriving and using the quadratic formula ▪ Determine the meaning of the discriminant ▪ Use algebra to solve quadratic equations with no linear term 	<p>Radical Expression, Radicand, Cube Root, Rationalizing the Denominator, Quadratic Function, Parabola, Vertex, Axis of Symmetry, Quadratic Equation, Standard Form, Completing the Square, Quadratic Formula, Discriminant</p>	<p>Chapter 10 & 9</p> <p>PH 10:1,3</p> <ul style="list-style-type: none"> • Simplifying, • multiplying, • dividing with rationalizing the denominator, • adding, and subtracting radicals • numbers only, no variables <p>PH 9:1-5, 7</p>	<p>25 days</p>
<p>Teacher has discretion on what they review or add before state testing.</p>	<p>5 days for CST test prep * during testing week(s) continue to review Quadratics.</p>			<p>5 days</p>
<p>4.0 Students simplify expressions before solving linear equations.</p> <p>5.0 Students solve multi-step problems, including word problems, in one variable and provide justification for each step.</p>	<p>Solving Inequalities Unit</p> <ul style="list-style-type: none"> ▪ Solve multi-step inequalities 	<ul style="list-style-type: none"> ▪ Inequalities 	<p>Chapter 3</p> <p>PH 3:1-4 PH 6:5-6</p>	<p>15 days</p>

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	*3-4 days to days should be used throughout the semester for Benchmarks and Assessment		4 days
	Review for finals		5 days

Benchmark Schedule/ Pacing Recap:

1st 9 weeks: Benchmark 1- **Semester 1 Week 9-10**

Solving Equations and Inequalities (A4.0, A5.0), and Graphing (A6.0, A7.0)

2nd 9 weeks: Benchmark 2- **Semester 1 Week 15-16**

Graphing (A7.0), Systems of Equations (A9.0), Exponents (A2.0)

3rd 9 weeks: Benchmark 3- **Semester 2 Week 5-6**

Systems of Equations (A9.0), Polynomials (A10.0), and Factoring (A11.0)

4th 9 weeks: Benchmark 4- **Semester 2 Week 13-14**

Factoring (A11.0), Rational Expressions (A13.0), and Quadratics (A14.0, 19.0)

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