

Cord Algebra I, Mathematics in Context, 3rd edition
correlation to Washoe County Algebra I Content Standards

	Cord Algebra I Lesson(s)
Content Standard 1.0: Numbers, Number Sense, and Computation: Place Value; Fractions; Comparing & Ordering; Counting ; Facts; Estimating & Estimation Strategies; Computation; Solving Problems & Number Theory	
1.12.6 Determine an approximate value of radical and exponential expressions using a variety of methods.	5.5, 5.6, 10.3, 13.3
1.12.7.1 Solve mathematical problems involving exponents and roots.	5.5, 5.6, 5.Aps, 10.3, 13.3
1.12.7.2 Perform addition, subtraction, and scalar multiplication matrices.	1.6
1.12.8 Identify and apply real number properties to solve problems.	1.1, 3.1, 3.3
Content Standard 2.0: Numbers, Patterns, Functions, and Algebra: Patterns; Variables & Unknowns; Number Sentences, Expressions & Polynomials; Relations & Functions; Linear Equations & Inequalities; Algebraic Representations & Applications	
2.12.1 Use algebraic expressions to identify and describe the n^{th} term of a sequence.	1.2 (nth term not defined, sequences explored)
2.12.2.1 Isolate any variable in given equations, inequalities, proportions, and formulas to use in mathematical and practical situations.	3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 9.1, 9.2, 9.3, 9.4, 9.5
2.12.3.1 Add, subtract, multiply, and factor 1^{st} , and 2^{nd} , degree polynomials connecting the arithmetic and algebraic processes.	10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7
2.12.3.2 Simplify algebraic expressions, including exponents and radicals.	1.8, 1.9, 13.3
2.12.4.1 Determine the domain and range of functions, including linear, quadratic, and absolute value, algebraically and graphically.	5.1, 5.2, 5.3, 5.4, 5.5, 5.6
2.12.4.2 Solve absolute value equations and inequalities both algebraically and graphically.	3.6, 9.5
2.12.5.1 Solve systems of two linear equations algebraically and graphically and verify solutions (with and without technology).	8.1, 8.2, 8.3, 8.4, 8.5
2.12.6.1 Solve mathematical and practical problems involving linear and quadratic equations with a variety of methods, including discrete methods (with and without technology).	4.3, 4.4, 4.5, 4.Aps, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.Aps

Content Standard 3.0: Measurement: Comparison, Estimation & Conversion; Precision in Measurements; Formulas; Money; Ratios and Proportions; Time	
3.12.4 Interpret and apply consumer data presented in charts, tables, and graphs to make informed financial decisions related to practical applications.	Consumer data presented through Math Applications sections (every chapter)
Content Standard 4.0: Spatial Relationships, Geometry, and Logic: Two-Dimensional Shapes; Congruence, Similarity, & Transformations; coordinate Geometry & Lines of Symmetry; Three-Dimensional figures; Algebraic Connections; Lines, Angels & their Properties; Triangles; Constructions; Logic.	
4.12.5.1 Determine the slope of lines using coordinate geometry and algebraic techniques.	4.2, 4.3, 4.4, 4.5
4.12.5.2 Identify parallel, perpendicular, and intersecting lines by slope.	4.6, 4.7
4.12.5.3 Graph linear equations and find possible solutions to those equations using coordinate geometry.	4.3, 4.4, 4.5, 4.6, 4.7
4.12.5.4 Find possible solutions sets of systems of equations whose slopes indicate parallel, perpendicular, or intersecting lines.	8.1, 8.2
Content Standard 5.0 Data Analysis: Data Collection & Organization; Central Tendency & Data Distribution; Interpretation of Data; Permutations & Combinations; Experimental & Theoretical Probability; Statistical Inferences	
5.12.1.1 Organize statistical data through the use of tables, graphs, and matrices (with and without technology).	7.1, 7.2, 7.3, 7.4, 7.5
5.12.2.1 Select and apply appropriate statistical measures in mathematical and practical situations.	7.1, 7.6, 7.Aps
5.12.3.1 Distinguish between a sample and a census.	6.6 (Sample compared to population, but not census)
5.12.3.2 Identify sources of bias and their effect on data representations and statistical conclusions.	6.6
5.12.3.3 Use the shape of a normal distribution to compare and analyze data from a sample.	Not covered until Cord Algebra 2
5.12.4. Apply permutations and combinations to mathematical and practical situations, including the Fundamental Counting Principle.	6.1, 6.2, 6.3, 6.4
5.12.5.1 Determine the probability of an event with and without replacement using sample spaces.	6.5
5.12.5.2 Design, conduct, analyze and effectively communicate the results of multi-stage probability experiments.	6.2, 6.Labs

5.12.6.1 Design, construct, analyze, and select an appropriate type of graphical representations to communicate the results of a statistical experiment.	7.2, 7.3, 7.4, 7.5, 7.Labs
5.12.6.2 Formulate and justify inferences based on a valid data sample.	6.6, 7.1, 7.2, 7.3, 7.4, 7.5, 7.Aps