Cord Algebra 1, Learning in Context, 3rd edition correlation to Oklahoma Pass Mathematics Content Standards, Algebra I

	Cord Algebra 1 Lesson(s)	
Standard 1: Number Sense and Algebraic Operations - The student will use		
expressions and equations to model number relationships.		
1. Equations and Formulas		
a. Translate word phrases and sentences into	1.8, 1.9, 3.1, 3.2, 3.3, 3.4, 3.5	
expressions and equations and vice versa.		
b. Solve literal equations involving several	3.4	
variables for one variable in terms of the others.		
c. Use the formulas from measurable attributes of	1.9, 2.1, 2.2, 2.3, 2.4, 2.5,	
geometric models (perimeter, circumference, area	Chapter 2 Math Applications	
and volume), science, and statistics to solve		
problems within an algebraic context.		
d. Solve two-step and three-step problems using	2.1, 2.2, 2.3, Chapter 2 Math	
concepts such as rules of exponents, rate, distance,	Applications, 3.2, Chapter 3	
ratio and proportion, and percent.	Math Applications, 10.2, 10.3	
2. Expressions		
a. Simplify and evaluate linear, absolute value,	1.3, 1.8, 12.1, 12.2, 12.3, 12.4,	
rational and radical expressions.	13.3	
b. Simplify polynomials by adding, subtracting or	10.1, 10.2, 10.3, 10.4, 10.6	
multiplying.		
c. Factor polynomial expressions.	10.5, 10.6, 10.7	
Standard 2: Relations and Functions - The student will use relations and functions		
to model number relationships.		
1. Relations and Functions		
a. Distinguish between linear and nonlinear data.	4.5, 5.4	
b. Distinguish between relations and functions.	5.1	
c. Identify dependent and independent variables,	5.1, 5.4, 5.5	
domain and range.		
d. Evaluate a function using tables, equations or	4.3, 4.4, 4.5, 4.6, 4.7, 5.2, 5.3,	
graphs.	5.4, 5.5	
2. Linear Equations and Graphs		
a. Solve linear equations by graphing or using	3.1, 3.2, 3.3, 3.4, 3.5, 4.2, 4.3,	
properties of equality.	4.4, 4.5	
b. Recognize the parent graph of the functions $y =$	4.6, 4.7, 5.4, 5.5	
k, y = x, y = x , and predict the effects of		
transformations on the parent graph.		

c. Slope	42 43 44 45 46 47	
I Calculate the slope of a line using a graph an	Chapter 4 Math Applications	
equation two points or a set of data points	Chapter + Math Applications	
I Use the slope to differentiate between lines that		
are parallel perpendicular horizontal or vertical		
III Interpret the slope and intercepts within the		
context of everyday life (e.g. telephone charges		
hased on hase rate [v_intercent] plus rate per		
minute [slope])		
d Develop the equation of a line and graph linear	131115	
relationships given the following: slope and y	+.3, +.+, +.3	
intercent slope and one point on the line, two		
noticept, slope and one point on the line, two		
of data points		
of data points.	12 11 15 16 17	
e. Match appropriate equations to a graph, table, or	4.3, 4.4, 4.3, 4.0, 4.7	
situation and vice versa.		
3. Linear Inequalities and Graphs	0.2.0.2.0.4	
a. Solve linear inequalities by graphing or using	9.2, 9.3, 9.4	
properties of inequalities.	0100000000	
b. Match appropriate inequalities (with 1 or 2	9.1, 9.2, 9.3, 9.4, 9.6	
variables) to a graph, table, or situation and vice		
versa.		
4. Solve a system of linear equations by graphing,	8.1, 8.2, 8.3, 8.4, 8.5	
substitution or elimination.		
5. Nonlinear Functions		
a. Match exponential and quadratic functions to a	5.6, 11.1, 11.2, Chapter 11 Math	
table, graph or situation and vice versa.	Applications	
b. Solve quadratic equations by graphing,	11.2, 11.3, 11.4, 11.5, 11.6	
factoring, or using the quadratic formula.		
Standard 3: Data Analysis, Probability and Statistics - The student will use data		
analysis, probability and statistics to formulate and justify predictions from a set		
of data.		
1. Data Analysis		
a. Translate from one representation of data to	7.2, 7.3, 7.4, 7.5	
another and understand that the data can be		
represented using a variety of tables, graphs, or		
symbols and that different modes of representation		
often convey different messages.		
b. Make valid inferences, predictions, and/or	7.1, 7.2, 7.3, 7.4, 7.5, 7.6	
arguments based on data from graphs, tables, and		
charts.		
c. Solve two-step and three-step problems using	6.1, 6.2, 6.3, 6.4, 6.5, Chapter 6	
concepts such as probability and measures of	Math Applications, 7.1,	
central tendency.	Chapter 7 Math Applications	