Cord Algebra 1, Learning in Context, 3rd edition correlation to Hawaii's HCPS III Algebra Benchmarks

Benchmarks	Cord Algebra I Lesson(s)	
Standard 1: Numbers and Operations: NUMBER SENSE: Understand numbers, ways		
of representing numbers, relationships among numbers, and number systems		
MA.AI.1.1 Recognize situations that can be	1.6	
represented by matrices		
Standard 2: Numbers and Operations: OPERATION SENSE: Understand the meaning		
of operations and how they relate to each other		
MA.AI.2 No benchmark for Algebra I		
Standard 3: Numbers and Operations: COMPUTATION STRATEGIES: Use		
computational tools and strategies fluently and, wh	en appropriate, use estimation	
MA.AI.3.1 Apply arithmetic properties to operate on	13.3	
and simplify expressions that include radicals and		
other real numbers		
MA.AI.3.2 Apply the laws of exponents to perform	10.2, 10.3	
operations on expressions with integral exponents		
MA.AI.3.3 Use addition, subtraction, and scalar	1.6	
multiplication of matrices to solve problems		
Standard 4: Measurement: FLUENCY WITH MEASUREMENT: Understand attributes,		
units, and systems of units in measurement; and develop and use techniques, tools,		
and formulas for measuring		
MA.AI.4.1 Use formulas, functions, or conversion	2.2, 3.2	
equations to solve problems dealing with determining		
a measurement based on another derived or given		
Measurement Standard E. Coometry and Spatial Sanaa: BBODED		
Standard 5: Geometry and Spatial Sense: PROPERTIES AND RELATIONSHIPS: Analyze properties of objects and relationships among the properties		
MA.AI.5 No benchmark for Algebra I		
Standard 6: Geometry and Spatial Sense: TRANSE	RMATIONS AND SYMMETRY	
Use transformations and symmetry to analyze mathematical situations		
MA.AI.6 No benchmark for Algebra I		
Standard 7: Coometry and Spatial Sense: VISUAL		
visualization and spatial reasoning to solve problems both within and outside of		
mathematics		
MA.AI.7 No benchmark for Algebra I		
Standard 8: Geometry and Spatial Sense: PEPPESI	NITATIONAL SYSTEMS: Select	
and use different representational systems, including coordinate geometry		
MA AI 8 1 Graph linear equations using slope-		
intercept, point-slope, and x- and y-intercept	4.3, 4.4, 4.3, 4.0, 4.7	
techniques		
MA.AI.8.2 Determine the slope of a line when given	424344	
the graph of a line, two points on the line, or the	T.2, T.3, T.T	
equation of the line		
Standard 9: Patterns, Functions, and Algebra: PAT	TERNS AND FUNCTIONAL	
RELATIONSHIPS: Understand various types of patterns and functional relationships		
MA.AI.9.1 Determine if a linear pattern exists in a set	4.2.4.3.4.4.4.5.4.6	
of data and represent the data algebraically and	· , ···· , ···· , ···· , ····	
graphically		
MA.AI.9.2 Compare and contrast the concepts of	5.3	
direct and inverse variation of a relation		

MA AI 9.3 Determine the zeros of a linear or	<i>A</i> 3 <i>A A</i> 5 <i>A</i> 6 <i>A</i> 7 11 1 11 2	
quadratic function algebraically and graphically	4.3, 4.4, 4.3, 4.0, 4.7, 11.1, 11.2,	
	11.3, 11.4, 11.5, 11.6	
MA.AI.9.4 Compare and contrast the properties of	5.6	
Standard 10: Patterns, Eunctions, and Algebra: SVI		
symbolic forms to represent, model, and analyze mathematical situations		
MA.AI.10.1 Solve linear equations and inequalities in	3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 9.2,	
one variable using a variety of strategies (e.g.,	939495	
algebraically, by graphing, by using a graphing	<i>y</i> . <i>s</i> , <i>y</i> . i , <i>y</i> . <i>s</i>	
calculator)		
MA.AI.10.2 Translate between verbal mathematical	1.8, 3.1, 3.2, 3.3, 3.4, 3.5	
situations and algebraic expressions and equations		
MA.AI.10.3 Justify the steps used in simplifying	3.1, 3.2, 3.3, 3.4, 3.5, 9.2, 9.3	
expressions and solving equations and inequalities		
MA.AI.10.4 Determine the equation of a line when	4.4, 4.5	
given the graph of the line, the slope and a point on		
the line, or two points on the line		
MA.AI.10.5 Solve systems of two linear equations in	8.1, 8.2, 8.3, 8.4, 8.5	
two variables algebraically and graphically		
MA.AI.10.6 Factor first- and second-degree	10.5, 10.6, 10.7	
binomials and trinomials in one or two variables		
MA.AI.10.7 Solve quadratic equations in one variable	11.1, 11.2, 11.3, 11.4, 11.5, 11.6	
algebraically, graphically, or by using graphing		
technology		
MA.AI.10.8 Select and use a variety of strategies	10.1, 10.2, 10.3, 10.4, 10.5,	
(e.g., concrete objects, pictorial representations,	10.6, 10.7	
algebraic manipulation) to perform operations on		
MA ALIO Q Analyze transformations of lines and	1 1 1 5 1 6 1 7	
understand how the transformation are represented	4.4, 4.3, 4.0, 4.7	
in equations		
Standard 11: Data Analysis Statistics and Probabi		
questions and collect, organize, and represent data to answer those questions		
MA.AI.11 No benchmark for Algebra I		
Standard 12: Data Analysis Statistics and Probabi	lity: STATISTICS: Interpret data	
using methods of exploratory data analysis		
MA.AI.12.1 Compare data sets using statistical	717273747576	
techniques (e.g., measures of central tendency.	Т.1, Т.2, Т.3, Т. т , Т.3, Т.0	
standard deviation, range, stem-and-leaf plots, and		
box-and-whisker graphs)		
MA.AI.12.2 Display bivariate data in a scatter plot.	7.3	
describe its shape, and determine the line of best fit	,	
that models a trend (if a trend exists)		
Standard 13: Data Analysis, Statistics, and Probability: DATA ANALYSIS: Develop		
and evaluate interences, predictions, and arguments that are based on data		
Standard 14: Data Analysis Statistics and Brobabi	lity: PPOBABILITY: Understand	
and apply basic notions of chance and probability		
MA.AI.14 No benchmark for Algebra I		
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