Cord Algebra 2, Learning in Context, 1st edition correlation to Hawaii's HCPS III Algebra II Benchmarks

Benchmarks	Cord Algebra 2 Lesson(s)		
	Standard 1: Numbers and Operations: NUMBER SENSE: Understand numbers, ways of representing numbers, relationships among numbers, and number systems		
MA.All.1.1 Use the complex number system, the			
notation for complex numbers, and the definition of "i"	5.5		
to solve problems	CENCE: Understand the meening		
Standard 2: Numbers and Operations: OPERATION SENSE: Understand the meaning of operations and how they relate to each other			
MA.All.2.1 Add, subtract, multiply, and divide	5.5		
complex numbers	3.3		
MA.All.2.2 Use the inverse relationship between	8.2		
exponents and logarithms to solve exponential and	8.2		
logarithmic problems			
Standard 3: Numbers and Operations: COMPUTATI	ON STRATEGIES: Use		
computational tools and strategies fluently and, when appropriate, use estimation			
MA.All.3.1 Apply the laws of exponents to perform	5.1		
operations on expressions with integral exponents	J.1		
Standard 4: Measurement: FLUENCY WITH MEASU	REMENT: Understand attributes		
units, and systems of units in measurement; and develop and use techniques, tools,			
and formulas for measuring			
MA.All.4.1 Use advanced formulas or functions to	Throughout Math Applications		
solve problems dealing with determining a	Throughout Water Applications		
measurement based on another derived or given			
measure			
Standard 5: Geometry and Spatial Sense: PROPER	TIES AND RELATIONSHIPS:		
Analyze properties of objects and relationships am			
MA.AII.5 No benchmark for Algebra II			
Standard 6: Geometry and Spatial Sense: TRANSFO	DRMATIONS AND SYMMETRY:		
Use transformations and symmetry to analyze math			
MA.All.6 No benchmark for Algebra II			
	AND SPATIAL SENSE: Use		
Standard 7: Geometry and Spatial Sense: VISUAL AND SPATIAL SENSE: Use visualization and spatial reasoning to solve problems both within and outside of			
mathematics			
MA.AII.7 No benchmark for Algebra II			
Standard 8: Geometry and Spatial Sense: REPRESI	NTATIONAL SYSTEMS: Select		
and use different representational systems, including			
MA.All.8 No benchmark for Algebra II			
	FERNIC AND FUNCTIONAL		
Standard 9: Patterns, Functions, and Algebra: PAT			
RELATIONSHIPS: Understand various types of patt			
MA.All.9.1 Apply the properties of arithmetic and	11.2, 11.3, 11.4		
geometric sequences and series to solve problems	0.1.0.6		
MA.All.9.2 Use exponential functions to solve	8.1, 8.6		
problems involving exponential growth and decay	44010201		
MA.All.9.3 Use the properties of many types of	4.4, 8.1, 8.2, 9.1		
functions (e.g., polynomial, step, absolute value,			
step, exponential, and logarithmic) to identify the			
function's graph			
MA.AII.9.4 Use the appropriate terminology and	4.1, 4.4, 4.5, 6.1, 8.1, 9.1, 10.1		
l notation to dating tunations and their properties /s ~			
notation to define functions and their properties (e.g., domain, range, function composition, inverses, zeros)			

MA.All.9.5 Determine the zeros of a function	4.1, 4.4, 4.5, 6.1, 8.1, 9.1, 10.1	
algebraically or graphically		
MA.AII.9.6 Describe the relationship among relations and functions	4.1	
MA.All.9.7 Determine the domain and range of a	4.1	
relation given a graph or a set of points	4.1	
	MROLIC PEDDESENTATION: Usa	
Standard 10: Patterns, Functions, and Algebra: SYMBOLIC REPRESENTATION: Use symbolic forms to represent, model, and analyze mathematical situations		
MA.All.10.1 Solve equations and inequalities	1.3	
involving absolute values	1.5	
MA.All.10.2 Solve systems of linear equations and	2.1, 2.2, 2.3, 2.4, 2.5	
inequalities in two or three variables using a variety of	2.1, 2.2, 2.3, 2.4, 2.3	
strategies (e.g., substitution, graphing, matrices,		
technology)		
MA.All.10.3 Solve equations containing radicals and	5.4	
exponents	3.1	
MA.All.10.4 Factor polynomials representing perfect	9.2, 9.3, 9.4	
squares, the difference in squares, perfect square		
trinomials, the sum and difference of cubes, and		
general trinomials		
MA.All.10.5 Apply quadratic equations to real-world	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, Ch. 6	
situations	Math Applications	
MA.All.10.6 Solve quadratic equations in the	6.5, 6.6	
complex number system	0.5, 0.0	
MA.All.10.7 Use the binomial theorem to expand	11.5	
binomial expression		
MA.All.10.8 Add, subtract, multiply, divide, and	5.1, 5.2, 5.3, 10.2, 10.3, 10.5	
simplify rational expressions, radical expressions		
containing positive rational numbers, and		
expressions containing rational exponents		
MA.All.10.9 Translate between the equations of	7.2, 7.3, 7.4, 7.5, 7.6	
conic sections (e.g., circle, ellipse, parabola,		
hyperbola) and their graphs		
MA.All.10.10 Analyze translations and dilations for	4.5, 7.3, 7.5	
graphs of absolute value functions, parabolas, and circles, and understand how the transformations are		
represented in equations Standard 11: Data Analysis, Statistics, and Probabi	lity: ELLIENCY WITH DATA: Boso	
questions and collect, organize, and represent data		
MA.All.11 No benchmark for Algebra II		
)	litus STATISTICS, Interpret dete	
Standard 12: Data Analysis, Statistics, and Probabi using methods of exploratory data analysis	my. 3141131103. Interpret data	
MA.All.12.1 Identify trends in bivariate data and find	1.6	
functions that model the data	1.6	
Standard 13: Data Analysis, Statistics, and Probabi	Iitv: DATA ANAI YSIS: Develop	
and evaluate inferences, predictions, and arguments that are based on data		
MA.All.13 No benchmark for Algebra II		
	lity: PROBABILITY: Understand	
Standard 14: Data Analysis, Statistics, and Probability: PROBABILITY: Understand and apply basic notions of chance and probability		
MA.All.14.1 Use the fundamental counting principles	14.3, 14.4	
for combinations and permutations to determine	14.5, 14.4	
probability		
proceeding		

MA.All.14.2 Calculate probabilities of events under	14.1, 14.2
different relationships (e.g., inclusion, disjoint,	
complementary, independent, dependent, with	
replacement, without replacement)	