

Cord Algebra II, Mathematics in Context, 1st edition
correlation to Idaho Algebra II Content Standards

	Cord Algebra II Lesson(s)
Standard 1: Number and Operation	
Goal 1.1: Understand numbers, ways of representing numbers, relationships among numbers, and number systems.	
AII.1.1.1 Compare and contrast the properties of numbers and number systems within the real number system to include rational and irrational numbers.	1.1
AII.1.1.2 Demonstrate meaning of complex numbers as solutions to polynomial equations that do not have real solutions.	5.5, 9.5
AII.1.1.3 Represent powers using logarithms.	8.1, 8.2
AII.1.1.4 Recognize matrices as a method of arranging data.	3.1, 3.2, 3.3, 3.4, 3.5
AII.1.1.5 Know that matrices have some of the properties of the real number system.	3.1, 3.2, 3.4
AII.1.1.6 Develop an understanding of the properties of logarithmic expressions and expressions with rational exponents.	5.1, 5.3, 8.1, 8.2, 8.3, 8.4
Goal 1.2: Understand meanings of operations and how they relate to one another. No objectives at this course level.	
AII.1.2.1 Develop an understanding of the properties of, and representations for, the addition, subtraction, and multiplication of matrices.	3.1, 3.2
Goal 1.3: Compute fluently and make reasonable estimates.	
AII.1.3.1 Use the properties of real numbers to simplify expressions.	1.1
AII.1.3.2 Perform computations with matrices.	3.1, 3.2
AII.1.3.3 Add, subtract, multiply and divide radical expressions.	5.2
AII.1.3.4 Perform computations with complex numbers.	5.5
AII.1.3.5 Perform computations with logarithmic expressions and expressions with rational exponents.	8.1, 8.2, 8.3, 8.4

Standard 2: Concepts and Principles of Measurement	
Goal 2.1 Understand measurable attributes of objects and the units, systems, and processes of measurement.	
AII.2.1.1 Recognize the relationship between radian and degree measures.	12.2
Goal 2.2: Apply appropriate techniques, tools, and formulas to determine measurements. No objectives at this course level.	
Standard 3: Concepts and Language of Algebra and Functions	
Goal 3.1: Understand patterns, relations, and functions.	
AII.3.1.1 Represent patterns and functional relationships in a table and as a graph.	1.4, 1.5, 4.1, 4.4, 4.5, 6.1, 10.1, 11.1
AII.3.1.2 Describe the graph of a quadratic equation and discuss its attributes in terms of the basic concepts of maximum, minimum, intercepts, and roots.	6.1
AII.3.1.3 Graph and analyze the graph of an absolute value equation and its characteristics.	1.3, 4.4, 4.5
AII.3.1.4 Understand and represent transformations by using sketches, coordinates, and function notation.	4.5
Goal 3.2: Represent and analyze mathematical situations and structures using algebraic symbols.	
AII.3.2.1 Write equations and inequalities in multiple forms.	1.2, 1.3, 1.4, 1.5
AII.3.2.2 Solve equations and inequalities and systems of equations and inequalities.	1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5
AII.3.2.3 Perform operations on simple rational expressions.	5.1, 5.3
Goal 3.3: Use mathematical models to represent and understand quantitative relationships. No objectives at this course level.	
Goal 3.4: Analyze change in various contexts.	
AII.3.4.1 Interpret how changes to an equation affect the parent graph of the equation.	4.5, 7.3

Standard 4: Concepts and Principles of Geometry	
Goal 4.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.	
AII.4.1.1 Use trigonometric relationships to determine lengths and angle measures.	12.1, 12.5, 12.6, 13.3, 13.4
Goal 4.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems.	
AII.4.2.1 Analyze the graphs of circles and parabolas.	7.3, 7.5
Goal 4.3: Apply transformations and use symmetry to analyze mathematical situations. No objectives found at this course level.	
Goal 4.4: Use visualization, spatial reasoning, and geometric models to solve problems. No objectives found at this course level.	
Standard 5: Data Analysis, Probability, and Statistics No objectives at this course level.	