

*Cord Geometry, Mathematics in Context, 3rd edition*  
correlation to Idaho Geometry Content Standards

	Cord Geometry Lesson(s)
<b>Standard 1: Number and Operation</b>	
<b>Goal 1.1: Understand numbers, ways of representing numbers, relationships among numbers, and number systems.</b>	
<b>G.1.1.1</b> Compare and contrast the properties of numbers and number systems within the real number system to include rational and irrational numbers.	5.1, 5.2
<b>Goal 1.2: Understand meanings of operations and how they relate to one another.</b> No objectives at this course level.	
<b>Goal 1.3: Compute fluently and make reasonable estimates.</b>	
<b>G.1.3.1</b> Judge the reasonableness of numerical computations and their results.	covered throughout the textbook in Math Applications feature as students are instructed to explain why their answer is valid
<b>Standard 2: Concepts and Principles of Measurement</b>	
<b>Goal 2.1 Understand measurable attributes of objects and the units, systems, and processes of measurement.</b>	
<b>G.2.1.1</b> Make decisions about units that are appropriate for problems involving measurements.	1.2, Chapter 8, Chapter 10
<b>Goal 2.2: Apply appropriate techniques, tools, and formulas to determine measurements.</b>	
<b>G.2.2.1</b> Understand and use formulas to calculate the perimeter, circumference, area, surface area, and volume of geometric figures.	Chapter 8 and Chapter 10
<b>Standard 3: Concepts and Language of Algebra and Functions</b> No specific objectives at this course level	

<b>Standard 4: Concepts and Principles of Geometry</b>	
<b>Goal 4.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.</b>	
<b>G.4.1.1</b> Analyze properties and determine attributes of two- and three-dimensional objects.	Covered thoroughly in Chapters 3, 4, 5, 6, 7, 8, 9, 10
<b>G.4.1.2</b> Explore congruence and similarity among classes of two dimensional objects and solve problems involving them.	3.4, 3.5, 3.6, 4.2, 4.3, 4.4
<b>G.4.1.3</b> Establish the validity of geometric conjecture using inductive and deductive reasoning.	2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8
<b>G.4.1.4</b> Apply trigonometric relationships to determine lengths and angle measures.	5.4, 5.5, 5.6
<b>Goal 4.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems.</b>	
<b>G.4.2.1</b> Use Cartesian coordinates to analyze geometric situations.	7.1, 7.2, 7.3, 7.4, 7.5, 7.6
<b>G.4.2.2</b> Solve problems involving two dimensional objects represented with Cartesian coordinates.	7.1, 7.2, 7.3, 7.4, 7.5
<b>Goal 4.3: Apply transformations and use symmetry to analyze mathematical situations.</b>	
<b>G.4.3.1</b> Understand and represent translations, reflections, dilations, and rotations of objects in the plane.	11.1, 11.2, 11.3, 11.4, 11.7
<b>Goal 4.4: Use visualization, spatial reasoning, and geometric models to solve problems.</b>	
<b>G.4.4.1</b> Draw and construct representations of two dimensional geometric objects using a variety of tools.	1.4, 10.1, 10.2, various Math Labs use technology to create geometric objects
<b>Standard 5: Data Analysis, Probability, and Statistics</b> No objectives at this course level.	