

Cord Geometry, Mathematics in Context, 3rd edition
correlation to Washoe County Geometry Content Standards

	Cord Geometry Lesson(s)
Content Standard 1.0: Numbers, Number Sense, and Computation: Place Value; Fractions; Comparing & Ordering; Counting ; Facts; Estimating & Estimation Strategies; Computation; Solving Problems & Number Theory	
Content Standard 2.0: Numbers, Patterns, Functions, and Algebra: Patterns; Variables & Unknowns; Number Sentences, Expressions & Polynomials; Relations & Functions; Linear Equations & Inequalities; Algebraic Representations & Applications	
WG 2.12.2.2 Solve for a variable using geometric properties of angles.	1.3, 3.1, 4.3, 6.2
WG 2.12.3.3 Describe the area, perimeter and volume of a region when the region's sides are expressed as binomials.	Used throughout Chapter 8 and Chapter 10 in Exercises
Content Standard 3.0: Measurement: Comparison, Estimation & Conversion; Precision in Measurements; Formulas; Money; Ratios and Proportions; Time	
3.12.1 Estimate and convert between customary and metric systems.	Not covered
3.12.2.1 Justify, communicate, and differentiate between precision, error in practical problems.	Not covered
3.12.3.1 Select and use appropriate measurement tools, techniques, and formulas to solve problems in mathematical and practical situations.	Used throughout the text in Math Labs and Math Applications (every chapter)
WG 3.12.3.2 Use formulas to find the surface area of prisms, cylinders, pyramids, cones, and spheres. (Obliques only in Formal)	10.3, 10.5, 10.7
3.12.5.1 Determine the measure of unknown dimensions, angles, areas and volumes using relationships and formulas to solve problems.	1.3, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.Aps, 10.3, 10.4, 10.5, 10.6, 10.Aps
WG 3.12.5.2 Determine the measure of unknown dimensions using special right triangle relationships.	5.3
WG 3.12.5.3 Select and use appropriate formulas to find area of similar polygons in mathematical and practical situations. [Apothems in Formal]	8.6
WG 3.12.5.4 Identify and apply similar triangles theorems.	4.2, 4.3, 4.4, 4.5, 4.Aps
WG 3.12.5.5 Use the Geometric Mean Theorem to solve for any side in similar polygons. [Triangles in Formal]	4.5

Standard 4.0: Spatial Relationships, Geometry, and Logic: Two-Dimensional Shapes; Congruence, Similarity, & Transformations; coordinate Geometry & Lines of Symmetry; Three-Dimensional figures; Algebraic Connections; Lines, Angels & their Properties; Triangles; Constructions; Logic.	
4.12.1.1 Identify and use the parts of a circle to solve mathematical and practical problems.	9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.Aps
4.12.1.2 Identify and apply properties of interior and exterior angles of polygons to solve mathematical and practical problems.	3.1, 3.2, 3.3, 6.1, 6.2
4.12.1.3 Identify and use properties of concentric and tangent circles and segment product properties for circles.	9.2, 9.3, 9.4, 9.5
4.12.2.1 Apply properties of similarity through right triangle trigonometry to find missing angles and sides.	5.4, 5.5
WG 4.12.3.1 Determine the location of a point after applying rigid (transformations) using a variety of methods.	11.1, 11.2, 11.3, 11.4, 11.5
WG 4.12.3.2 Use coordinate geometry to justify that geometric shapes meet their classification or definition.	7.5
WG 4.12.3.3 Write and use the graph for the equation of a circle to solve mathematical and practical problems.	9.1
WG 4.12.4.1 Create nets for three-dimensional figures and predict whether certain nets match certain solids.	10.1, 10.3, 10.5
4.12.5.1 Determine the slope of lines using coordinate geometry and algebraic techniques.	7.3, 7.4
4.12.5.2 Identify parallel, perpendicular, and intersecting lines by slope.	7.3, 7.4
4.12.5.3 Graph linear equations and find possible solutions to those equations using coordinate geometry.	7.3, 7.4
4.12.5.4 Find possible solutions sets of systems of equations whose slope indicate parallel, perpendicular, or intersecting lines.	Not covered (Covered in Cord Algebra 1)
4.12.5.5 Use triangle inequality theorems to classify triangles and determine side and angle relationships in triangles.	3.2, 3.3
4.12.5.6 [Formal only] Apply Hinge theorem between two triangles.	Not covered
4.12.6.1 Solve problems using complementary and supplementary angles, congruent angles, vertical angles, angles formed when parallel lines are cut by a transversal and angles in polygons.	1.3, 1.5, 3.6, 6.2

WG 4.12.6.2 [Formal only] Determine the points of concurrency.	3.8
4.12.7.1 Apply the Pythagorean theorem and its converse in mathematical and practical situations.	5.2, 5.Aps
WG 4.12.7.2 Identify and apply the congruence theorems for triangles.	3.4, 3.5, 3.6, 3.7
4.12.8.1 Solve problems by drawing geometric figures to demonstrate geometric relationships.	Used throughout the text in Math Applications
WG 4.12.8.2 Using a straightedge and compass, demonstrate basic geometric constructions.	1.4
4.12.9.1 Formulate, evaluate, and justify arguments using inductive and deductive reasoning in mathematical and practical situations.	2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8
WG 4.12.9.2 [Formal only] Formulate, evaluate, and justify arguments using contra-positive and inverse reasoning. Use symbolic notations for logic statements.	2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8
WG 4.12.9.3 [Not in Formal] Identify and use definitions, axioms, postulates and the basic elements of Euclidean geometry.	2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8
Standard 5.0 Data Analysis: Data Collection & Organization; Central Tendency & Data Distribution; Interpretation of Data; Permutations & Combinations; Experimental & Theoretical Probability; Statistical Inferences	
WG 5.12.1.2 Organize and display data using circle graphs.	Not covered
WG 5.12.5.3 Determine the geometric probability of an event occurring within or without a specified region.	8.7