Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. Text/Instructional Material Title: CORD Geometry, 2nd Edition

Mathematics Standard		Correlation By Page Numbers Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.1	The student will construct and judge the validity of a logical argument consisting of a set of premises and a conclusion. This will include a) identifying the converse, inverse, and contrapositive of a conditional statement;	80-84, 109, 125-127
	b) translating a short verbal argument into symbolic form;	80-84, 85-88, 89-94
	c) using Venn diagrams to represent set relationships; and	82-84, 85, 128, 282
	d) using deductive reasoning, including the law of syllogism.	74-79, 85-88, 89-94

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.2	The student will use pictorial representations, including computer software, constructions, and coordinate methods, to solve problems involving symmetry and transformation. This will include a) investigating and using formulas for finding distance, midpoint, and slope;	666-673, 674-680, 681-687, 688-693, 694-697, 698-704, 705-711
	b) investigating symmetry and determining whether a figure is symmetric with respect to a line or a point; and	670-672, 685-687, 690
	c) determining whether a figure has been translated, reflected, or rotated.	666-673, 674-680, 681-687, 688-693, 698-704

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.3 The student will solve practical problems involving complementary, supplementary, and congruent angles that include vertical angles, angles formed when parallel lines are cut by a transversal, and angles in polygons.	23, 26-29, 30-34, 75-76, 148-154, 155-161, 162-170, 204-210, 211-217, 218-223, 262-267, 316-322

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.4 The student will use the relationships between angles formed by two lines cut by a transversal to determine if two lines are parallel and verify, using algebraic and coordinate methods as well as deductive proofs.	155-162, 414-415, 421-422

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. Text/Instructional Material Title: CORD Geometry, 2nd Edition

Mathematics Standard	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.5 The student will a) investigate and identify congruence and similarity relationships between triangles; and	204-210, 211-217, 218-223, 224-230, 231-237, 316-322, 323-330, 335-340
b) prove two triangles are congruent or similar, given information in the form of a figure or statement, using algebraic and coordinate as well as deductive proofs.	204-210, 211-217, 316-322, 323-330, 335-340, 423-424

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.6	The student, given information concerning the lengths of sides and/or measures of angles, will apply the triangle inequality properties to determine whether a triangle exists and to order sides and angles. These concepts will be considered in the context of practical situations.	171-178, 179-183, 188-189, 190-201, 236, 595, 611, 727

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.7 The student will solve practical problems involving right triangles by using the Pythagorean Theorem, properties of special right triangles, and right triangle trigonometry. Solutions will be expressed in radical form or as decimal approximations.	341-347, 348-353, 354-360, 361-366, 369-371, 373-387

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. Text/Instructional Material Title: CORD Geometry, 2nd Edition

Mathematics Standard	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.8 The student will a) investigate and identify properties of quadrilaterals involving opposite sides and angles, consecutive sides and angles, and diagonals;	268-272, 273-278, 279-284, 285-290, 293-294, 294-296, 425-428
b) prove these properties of quadrilaterals, using algebraic and coordinate methods as well as deductive reasoning; and	273-278, 279-284, 285-290, 293-294, 294-296, 425-428
c) use properties of quadrilaterals to solve practical problems.	268-272, 273-278, 279-284, 285-290, 293-294, 294-296, 425-428

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.9	The student will use measures of interior and exterior angles of polygons to solve problems. Tessellations and tiling problems will be used to make connections to art, construction, and nature.	166-170, 262-267, 269-272, 273-278, 284, 291-292, 694-697

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.10	The student will investigate and solve practical problems involving circles, using properties of angles, arcs, chords, tangents, and secants. Problems will include finding arc length and the area of a sector, and may be drawn from applications of architecture, art, and construction.	493-495, 525-532, 533-541, 542-549, 550-556, 567-570, 571-579

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.11	The student will construct a line segment congruent to a given line segment, the bisector of a line segment, a perpendicular to a given line from a point not on the line, a perpendicular to a given line at a point on the line, the bisector of a given angle, and an angle congruent to a given angle.	36-43, 46-48, 49-50

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.12	The student will make a model of a three-dimensional figure from a two-dimensional drawing and make a two-dimensional representation of a three-dimensional object. Models and representations will include scale drawings, perspective drawings, blueprints, or computer simulations.	312-315, 582-588, 589-595, 642-643, 643-646

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard		**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.13	The student will use formulas for surface area and volume of three-dimensional objects to solve practical problems. Calculators will be used to find decimal approximations for results.	596-604, 605-611, 612-618, 619-625, 626-631, 632-636, 647-649, 650-663

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**

Mathematics Standard	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
G.14 The student will **a)** use proportional reasoning to solve practical problems, given similar geometric objects; and	310-315, 316-322, 323-330, 331-334, 335-340, 348-353, 354-360, 361-366, 367-372, 373-387, 487-491, 632-636
b) determine how changes in one dimension of an object affect area and/or volume of the object.	487-491, 632-636

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. Text/Instructional Material Title: CORD Geometry, 2nd Edition

Other Criteria	Correlation By Page Numbers Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
1. Materials emphasize the use of effective instructional practices and learning theory: • Students are guided through problem-solving approaches. • Concepts are introduced through concrete experiences that use manipulatives and other technologies. • Multiple opportunities are provided for students to develop and apply concepts through the use of calculators, computers, and other technologies. • Students use the language of mathematics including specialized vocabulary and symbols. • Students use a variety of representations (graphical, numerical, symbolic, verbal, and physical) to connect mathematical concepts.	

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. Text/Instructional Material Title: CORD Geometry, 2nd Edition

Other Criteria	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
2. Materials present content in an accurate, unbiased manner: • Materials are relatively free of content and production errors (misspelled words, word omissions, incorrect answers). • Diverse groups (racial, ethnic, cultural, linguistic), males and females, people with disabilities, and people of all ages are represented appropriately.	

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. Text/Instructional Material Title: CORD Geometry, 2nd Edition

Other Criteria	**Correlation By Page Numbers** Make all correlations using the student text. Identify the five *most significant* correlations. Include correlations that address the introduction and development of each concept. Use each bullet of the standard in the context of the stem. Consult the 2002 Mathematics Curriculum Framework for further information about each standard.
3. The mathematics content is significant and accurate: • Materials are presented in an organized, logical manner which represents the current thinking on how students learn mathematics. • Materials are organized appropriately within and among units of study. • Format design includes titles, subheadings, and appropriate cross-referencing for ease of use. • Writing style, length of sentences, vocabulary, graphics, and illustrations are appropriate. • Level of abstraction is appropriate, and real life examples, including careers, are provided. • Sufficient applications are provided to promote depth of application.	

Mathematics Textbook Correlation Matrices
Geometry Part 2 Standards of Learning
Publisher: CORD Communications, Inc. **Text/Instructional Material Title: CORD Geometry, 2nd Edition**