Wyoming Department of Education Required Virtual Education Course Syllabus				
Niobrara County School District # 1				
Wyoming Virtual				
Program Name	Academy	Content Area	MA	
	D-MTH-			
Course ID	206BV2-K	Grade Level	9-12	
	Recovery			
	Geometry-			
Course Name	Semester 2	# of Credits	0.5	
SCED Code	02072B0.5022	Curriculum Type	K12 Inc	

COURSE DESCRIPTION

Generally offered over the summer. K12's Geometry Summit course builds on the geometry covered in middle school to explore more complex geometric situations and deepen students' ability to explain geometric relationships, moving toward formal mathematical arguments. Specific topics include triangle symmetry, area and volume, circles, right triangle trigonometry, conic sections, and geometric modeling.

This is a credit recovery course, so students need to have taken Geometry Semester 1 prior to taking this course. This course is offered as an independent study. Teacher will be present to meet with individually, but there will be no set class time for this course. Students are given a diagnostic test at the beginning of each unit. The diagnostic test will guide students which lessons should be completed in order to succeed on the unit assessment. Individual lessons may be excused, however, success on each unit assessment is required to continue to move through the course. This allows students to complete the course in the period of 1 month.

	WYOMING CONTENT AND PERFORMANCE STANDARDS
STANDARD#	BENCHMARK (Standard/Indicator) Use the Standards and Benchmarks as Spreadsheets
	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving
A.CED.4	equations. For example, rearrange Ohm's law V = IR to highlight resistance R.*
G.C.1	Prove that all circles are similar.
	Identify and describe relationships among inscribed angles, radii, and chords. Include the
	relationship between central, inscribed, and circumscribed angles; inscribed angles on a diameter
	are right angles; the radius of a circle is perpendicular to the tangent where the radius intersects
G.C.2	the circle.
	Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for
G.C.3	a quadrilateral inscribed in a circle.
G.C.4	(+)Construct a tangent line from a point outside a given circle to the circle.
	Derive using similarity the fact that the length of the arc intercepted by an angle is proportional to
	the radius, and define the radian measure of the angle as the constant of proportionality; derive
G.C.5	the formula for the area of a sector.
	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based
G.CO.1	on the undefined notions of point, line, distance along a line, and distance around a circular arc.

G.GMD.1	Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone. Use dissection arguments, Cavalieri's principle, and informal limit arguments.
G.GMD.2	(+)Give an informal argument using Cavalieri's principle for the formulas for the volume of a sphere and other solid figures.
G.GMD.3	Use volume formulas for cylinders, pyramids, cones, and spheres to solve problems.*
G.GMD.4	Identify the shapes of two-dimensional cross-sections of three-dimensional objects, and identify three-dimensional objects generated by rotations of two-dimensional objects.
G.GPE.1	Derive the equation of a circle of given center and radius using the Pythagorean Theorem; complete the square to find the center and radius of a circle given by an equation.
G.GPE.2	Derive the equation of a parabola given a focus and directrix.
G.MG.1	Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).*
G.MG.2	Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot).*
G.MG.3	Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).*
G.SRT.10	(+)Prove the Laws of Sines and Cosines and use them to solve problems.
G.SRT.11	(+)Understand and apply the Law of Sines and the Law of Cosines to find unknown measurements in right and non-right triangles (e.g., surveying problems, resultant forces).
G.SRT.3	Use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.
G.SRT.4	Prove theorems about triangles. Theorems include: a line parallel to one side of a triangle divides the other two proportionally, and conversely; the Pythagorean Theorem proved using triangle similarity.
G.SRT.5	Use congruence and similarity criteria for triangles to solve problems and to prove relationships in geometric figures.
G.SRT.6	Understand that by similarity, side ratios in right triangles are properties of the angles in the triangle, leading to definitions of trigonometric ratios for acute angles.
G.SRT.7	Explain and use the relationship between the sine and cosine of complementary angles.
G.SRT.8	Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.
G.SRT.9	(+)Derive the formula A = (1/2)ab sin(C) for the area of a triangle by drawing an auxiliary line from a vertex perpendicular to the opposite side.

N.Q.2 Define appropriate quantities for the purpose of descriptive modeling.*

SCOPE AND SEQUENCE		
UNIT OUTLINE	STANDARD#	OUTCOMES
Unit 1: Triangle Similarity Lesson 1: Exchange Ideas: Triangle		OBJECTIVES/STUDENT CENTERED GOALS Determine missing measures in similar triangles.
Similarity	G.SRT.3 G.SRT.5	Determine the postulate or theorem that proves two triangles are similar.
Unit 1: Triangle Similarity Lesson 2:Triangle Similarity 1		Determine missing measures in similar triangles.
Lesson Z. Mangle similarity 1	G.SRT.3 G.SRT.5	Determine the postulate or theorem that proves two triangles are similar.
Unit 1: Triangle Similarity Lesson 3:Triangle Similarity 2		Solve mathematical problems using congruent triangle theorems.
Lesson 5. mangle similarity 2	G.SRT.3 G.SRT.5	Solve real-world problems using congruent triangle theorems.
		Prove theorems about triangles.
		Prove the triangle proportionality theorem.
Unit 1: Triangle Similarity Lesson 4: Applications of Triangle		Prove the triangle angle bisector theorem.
Similarity		Solve problems using the triangle proportionality theorem.
	G.SRT.4	Solve problems using the triangle angle bisector theorem.
		You may use today's lesson time to
Unit 1: Triangle Similarity Lesson 5: Your Choice		 Complete work in progress. Review prior lessons in the unit to prepare for the Unit Test. Post or respond to posts on the discussion board for the Exchange
	G.SRT.3 G.SRT.4 G.SRT.5 G.SRT.8	Ideas activity in this unit.Prepare for your state standardized testGo on to the next lesson.
Unit 1. Triangla Cimilarity	0.301.0	Prove the angle bisector theorem.
Unit 1: Triangle Similarity Lesson 6: Triangle Proportionality Theorem 1	G.SRT.4 G.SRT.5 G.SRT.8	Prove the Pythagorean theorem using triangle similarity.

		Calva problems using the angle bisector
		Solve problems using the angle bisector
		theorem.
		Solve problems using the Pythagorean
		theorem.
		Prove the angle bisector theorem.
		Trove the dright bisector theorem.
		Prove the Pythagorean theorem using
Unit 1: Triangle Similarity		triangle similarity.
Lesson 7: Triangle Proportionality		transfe similarity.
		Solve problems using the angle bisector
Theorem 2		theorem.
	G.SRT.4	theorem.
	G.SRT.5	Solve problems using the Pythagorean
	G.SRT.8	theorem.
	0.51(1.6	Prove the angle bisector theorem.
		Prove the angle bisector theorem.
		Prove the Pythagorean theorem using
		triangle similarity.
		triangle similarity.
Unit 1: Triangle Similarity		Solve problems using the angle bisector
Lesson 8: Similarity and the		theorem.
Pythagorean Theorem		theorem.
7 . 6		Calve problems using the Dutherson
		Solve problems using the Pythagorean theorem.
	C CDT 4	theorem.
	G.SRT.4 G.SRT.5	Calve real world problems using the
		Solve real-world problems using the
	G.SRT.8	Pythagorean theorem.
		Use today's lesson time to prepare for the
		Unit Test. You may
		Devisit Devisor estivities lessted hefere
		Revisit Review activities located before
Unit 1: Triangle Similarity		each quiz in the unit.
Lesson 9: Unit Review		Look at the Summary activities in each lossen.
		lesson.
	C CDT 2	Read through the Reference Guide pages linked in each lossen.
	G.SRT.3	pages linked in each lesson.
	G.SRT.4	Ack for hold on any Proctice problems way
	G.SRT.5	Ask for help on any Practice problems you
	G.SRT.8	did not fully understand.
Unit 1: Triangle Similarity	G.SRT.3	
Lesson 10: Unit Test	G.SRT.4	Domonstrate knowledge on concerts in this
23333 23. 3 1630	G.SRT.5	Demonstrate knowledge on concepts in this
	G.SRT.8	unit.
Unit 2: Area and Volume		Solve mathematical problems involving the
Lesson 1: Exchange Ideas: Area and		area of two-dimensional figures composed
Volume	0.005 =	of triangles, quadrilaterals, and polygons.
	G.GPE.7	

	<u> </u>	
		Determine the area of a composite figure
		using coordinates.
		Determine the area of a circle, using a
		formula.
		Determine the circumference of a circle,
Unit 2: Area and Volume		using a formula.
Lesson 2: Circumferences and Areas		
of Circles 1		Define the term <i>circle</i> .
of circles 1		
		Explain how to derive the formula for the
		area of a circle.
	A.CED.4	
	G.CO.1	Explain how to derive the formula for the
	G.GMD.1	circumference of a circle.
		Determine the area of a circle, using a
		formula.
		Determine the circumference of a circle,
Unit 2: Area and Volume		using a formula.
Lesson 3: Circumferences and Areas		
of Circles 2		Define the term <i>circle</i> .
of circles 2		Endish to the design the form to forther
		Explain how to derive the formula for the
		area of a circle.
	G.CO.1	Evalois how to derive the formula for the
	G.GMD.1	Explain how to derive the formula for the circumference of a circle.
	G.GIVID.1	
		Solve mathematical problems involving the area of two-dimensional figures composed
Unit 2: Area and Volume		of triangles, quadrilaterals, and polygons.
Lesson 4: Composite Figures		or triangles, quadrilaterals, and polygons.
, , , , , , , , , , , , , , , , , , ,		Determine the area of a composite figure
	G.GPE.7	
	U.UFL./	using coordinates. Use today's lesson time to prepare for the
		Unit Test. You may
		Onic rest. Tou may
		Revisit Review activities located before
		each quiz in the unit.
Unit 2: Area and Volume	A.CED.4	Look at the Summary activities in each
Lesson 5: Your Choice	G.CO.1	lesson.
	G.CO.1 G.GMD.1	Read through the Reference Guide
	G.GMD.2	pages linked in each lesson.
	G.GMD.3	pages mined in each lesson.
	G.GPE.7	Ask for help on any Practice problems you
	G.SRT.5	did not fully understand.
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		Determine the volume of a right prism.
Unit 2: Area and Volume		Determine the volume of a cylinder.
Lesson 6: Volumes of Prisms and Cylinders		Solve real-world problems involving the volume of a cylinder.
	G.GMD.1 G.GMD.3	Explain how to derive the formula for the volume of a cylinder.
		Explain how to derive the formula for the volume of a cone.
		Explain how to derive the formula for the volume of a pyramid.
Unit 2: Area and Volume		Solve real-world problems involving the volume of a pyramid.
Lesson 7: Volumes of Pyramids		Determine the volume of a pyramid.
		Name the parts of a pyramid.
		Solve problems involving the volume of a cone, using a formula.
	G.GMD.1 G.GMD.3	Solve real-world problems involving the volume of a cone, using a formula.
		Determine the surface area of cones or spheres.
Unit 2: Area and Volume		Explain how to derive the formula for the volume of a cone.
Lesson 8: Volumes of Cones		Solve problems involving the volume of a cone, using a formula.
	G.GMD.1 G.GMD.3	Solve real-world problems involving the volume of a cone, using a formula.
Unit 2: Area and Volume	-	Explain how to derive the formula for the volume of a sphere using Cavalieri's principle.
Lesson 9: Volume and Surface Area of Spheres		Solve problems involving volume of a sphere.
	G.GMD.2 G.GMD.3	Solve real-world problems involving the volume of a sphere.

		Determine the ratio of perimeters of similar figures.
		Solve perimeter problems using similarity criteria.
		Use similarity criteria to prove relationships in geometric figures.
Unit 2: Area and Volume Lesson 10: Volume Ratios		Determine the ratio of areas of similar figures.
		Solve area problems using similarity criteria.
		Determine the ratio of volumes of similar objects.
	G.SRT.5	Solve volume problems using similarity criteria.
		Use dilations to compare the area of scaled images.
Unit 2: Area and Volume Lesson 11: Reasoning About Area and		Solve area problems using dilations.
Volume		Use dilations to compare the volumes of scaled images.
	G.SRT.5	Solve volume problems using dilations.
		Use today's lesson time to prepare for the
		Unit Test. You may
11.11.2. A		 Revisit Review activities located before each quiz in the unit.
Unit 2: Area and Volume Lesson 12: Unit Review	A.CED.4 G.CO.1	 Look at the Summary activities in each lesson.
	G.GMD.1	Read through the Reference Guide
	G.GMD.2	pages linked in each lesson.
	G.GMD.3 G.GPE.7	Ask for help on any Practice problems you
	G.GPE.7 G.SRT.5	did not fully understand.
	A.CED.4	,
	G.CO.1	
Unit 2: Area and Volume	G.GMD.1 G.GMD.2	
Lesson 13: Unit Test	G.GMD.3	
	G.GPE.7	Demonstrate knowledge on concepts in this
	G.SRT.5	unit.
Geometry Checkpoint 3	A.CED.4 G.CO.1	Demonstrate knowledge on concepts in this semester.

	G.GMD.1	
	G.GMD.2	
	G.GMD.3	
	G.GPE.7	
	G.SRT.3	
	G.SRT.4	
	G.SRT.5	
	G.SRT.8	
		Describe angle and arc relationships formed by intersecting tangents and secants.
		Describe relationships between chords and arcs.
		Describe the relationship between a circle's tangent and the radius drawn to the point of tangency.
		Describe the relationship between the
		Describe the relationship between the measure of a minor arc and the measure of its central angle.
		Solve problems using relationships between chords and arcs.
Unit 3: Circles Lesson 1: Exchange Ideas: Circles		Solve problems using the angle and arc relationships formed by intersecting tangents and secants.
		Solve problems using the relationship between a circle's tangent and the radius drawn to the point of tangency.
		Solve problems using the relationship
		between the measure of a minor arc and
		the measure of its central angle.
		Construct the inscribed circle of a triangle.
		Prove that if a quadrilateral is inscribed in a circle, then the opposite angles are supplementary.
	6.63	Calica muchlance investigation of deleter 1
	G.C.2	Solve problems involving a quadrilateral
	G.C.4	inscribed in a circle.
Unit 3: Circles		
Lesson 2: Relationships Between		
Triangles and Circles 1		
angles and endes I	G.C.3	Construct the inscribed circle of a triangle.

Unit 3: CirclesLesson 3: Relationships		
Between Triangles and Circles 2		Construct the circle that circumscribes a
20000000 111001000 01100 01100 0	G.C.3	given triangle.
		Use today's lesson time to prepare for the
		Unit Test. You may
		Revisit Review activities located before
		each quiz in the unit.
Unit 3: Circles		Look at the Summary activities in each
Lesson 4: Your Choice		lesson.
	G.C.1	 Read through the Reference Guide
	G.C.2	pages linked in each lesson.
	G.C.3	
	G.C.4	Ask for help on any Practice problems you
	G.C.5	did not fully understand.
		Describe relationships between chords and
		arcs.
Unit 3: Circles		Describe the relationship between the
Lesson 5: Chords and Arcs 1		measure of a minor arc and the measure of
Lesson 5. Chords and Arcs 1		its central angle.
		California de la compania del compania de la compania del compania de la compania del compania de la compania del compania de la compania del compania d
	6.63	Solve problems using relationships between
	G.C.2	chords and arcs.
		Describe the relationship between the
		measure of an inscribed angle and the
Unit 3: Circles		measure of its intercepted arc.
Lesson 6: Chords and Arcs 2		Solve problems using the relationship
		between the measure of an inscribed angle
	G.C.2	and the measure of its intercepted arc.
	G.C.2	Describe angle and arc relationships formed
		by intersecting tangents and secants.
		Describe the relationship between a circle's
		tangent and the radius drawn to the point of
Unit 3: Circles		tangency.
Lesson 7: Tangents to Circles 1		
Lesson 7. Tangents to choics 1		Solve problems using the angle and arc
		relationships formed by intersecting
		tangents and secants.
		Solve problems using the relationship
	G.C.2	between a circle's tangent and the radius
	G.C.4	drawn to the point of tangency.
	G.C.1	Use today's lesson time to prepare for the
Unit 3: Circles	G.C.2	Unit Test. You may
Lesson 8: Your Choice	G.C.3	
	G.C.4	Revisit Review activities located before
	G.C.5	each quiz in the unit.

	T	
		Look at the Summary activities in each
		lesson.
		Read through the Reference Guide
		pages linked in each lesson.
		Ask for help on any Practice problems you
		did not fully understand.
		Describe segment relationships formed by
		secant and tangent segments drawn from
		the same exterior point.
		and dame division points
		Describe the segment relationship between
		two intersecting chords.
Unit 3: Circles		
Lesson 9: Tangents to Circles 2		Solve problems using the segment
Lesson 3. Tangents to circles 2		relationship between two intersecting
		chords.
		Solve problems using the segment
		relationships formed by secant and tangent
	G.C.2	segments drawn from the same exterior
	G.C.4	point.
		Prove that if a quadrilateral is inscribed in a
		circle, then the opposite angles are
Unit 3: Circles		supplementary.
Lesson 10: Inscribed Angles and Arcs 1		,
		Solve problems involving a quadrilateral
	G.C.3	inscribed in a circle.
Unit 3: Circles		
Lesson 11: Inscribed Angles and Arcs 2		Solve problems involving a quadrilateral
	G.C.3	inscribed in a circle.
Unit 3: Circles		
Lesson 12: Similarity in Circles	6.64	Duran that all simples are similar
	G.C.1	Prove that all circles are similar.
		Solve problems using the formula for the
Unit 3: Circles		length of the arc of a circle in terms of
Lesson 13: Radian Measure		radians.
		Derive the formula for the length of the are
	G.C.5	Derive the formula for the length of the arc of a circle in terms of radians.
	G.C.5	Derive the formula for the area of a sector
		of a circle in terms of radians.
Unit 3: Circles		or a circle in terms or radialis.
Lesson 14: Sector Areas		Solve problems using the formula for the
		area of a sector of a circle in terms of
	G.C.5	radians.
	G.C.3 G.C.1	i auiaiis.
Unit 3: Circles	G.C.1 G.C.2	Use today's lesson time to prepare for the
Lesson 15: Unit Review	G.C.2 G.C.3	Unit Test. You may
	G.C.3 G.C.4	Offic rest. Tou may
	G.C.4	

	G.C.5	Revisit Review activities located before each quiz in the unit.
		Look at the Summary activities in each lesson.
		Read through the Reference Guide
		pages linked in each lesson.
		pages iniked in each lesson.
		Ask for help on any Practice problems you
		did not fully understand.
	G.C.1	,
Unit 3: Circles	G.C.2	
Lesson 16: Unit Test	G.C.3	
2000011 201 01110 1 000	G.C.4	Demonstrate knowledge on concepts in this
	G.C.5	unit.
		Solve real-world problems using
		trigonometric ratios.
Unit 4: Right Triangle Trigonometry		
Lesson 1: Exchange Ideas: Right		Represent a real-world problem using a
Triangle Trigonometry		right triangle.
		Solve real-world problems using the
	G.SRT.8	Pythagorean theorem.
	0.51(1.0	Determine specified trigonometric ratios,
Unit 4: Right Triangle Trigonometry		given side lengths of a right triangle.
Lesson 2: Trigonometric Ratios 1	G.SRT.6	given side lengths of a right thangler
	G.SRT.8	Define trigonometric ratios for acute angles.
		Determine an unknown side length in a right
Unit 4: Right Triangle Trigonometry		triangle using a trigonometric ratio.
Lesson 3: Trigonometric Ratios 2		
	G.SRT.6	Solve real-world problems using
	G.SRT.8	trigonometric ratios.
Hait 4. Bight Triangle Triangens		Determine an unknown angle measure in a
Unit 4: Right Triangle Trigonometry		right triangle using a trigonometric ratio.
Lesson 4: Angles and Trigonometric		
Ratios	G.SRT.6	Solve real-world problems using
	G.SRT.8	trigonometric ratios.
		Solve problems involving the relationship
		between the sine of an acute angle and the
Unit 4: Right Triangle Trigonometry		cosine of its complement.
Lesson 5: Sines and Cosines		Determine the size (or essize) of a section
		Determine the sine (or cosine) of an acute
	G.SRT.7	angle, given the cosine (or sine) of its complement.
	U.JN1./	Solve real-world problems using
Unit 4: Right Triangle Trigonometry		trigonometric ratios.
Unit 4: Right Triangle Trigonometry		angonomeane radios.
Lesson 6: Discuss: Applications of		Represent a real-world problem using a
Trigonometry		right triangle.
	G.SRT.8	
	5.50	I.

		Solve real-world problems using the
		Pythagorean theorem.
		Use today's lesson time to prepare for the
		Unit Test. You may
		Revisit Review activities located before
Unit 4. Dight Triangle Trigonometry		each quiz in the unit.
Unit 4: Right Triangle Trigonometry Lesson 7: Your Choice	G.SRT.5	Look at the Summary activities in each
Ecsson 7. Four choice	G.SRT.6 G.SRT.7	lesson. • Read through the Reference Guide
	G.SRT.8	pages linked in each lesson.
	G.SRT.9	
	G.SRT.10	Ask for help on any Practice problems you
	G.SRT.11	did not fully understand.
Unit 4. Diaht Trianala Trianananatur.		Solve problems using congruence and similarity criteria for triangles.
Unit 4: Right Triangle Trigonometry Lesson 8: Special Right Triangles 1		similarity criteria for triangles.
Lesson 6. Special Right Thangles 1		Solve problems using properties of special
	G.SRT.5	right triangles.
		Identify corresponding sides and angles in
Unit 4: Right Triangle Trigonometry		similar polygons.
Lesson 9: Special Right Triangles 2		Solve problems using properties of special
	G.SRT.5	right triangles.
Unit 4: Right Triangle Trigonometry		Solve problems using congruence and
Lesson 10: Use Special Right Triangles		similarity criteria for triangles.
to Determine the Surface Area of a		Solve problems using properties of special
Regular Pyramid	G.SRT.5	right triangles.
		Solve real-world problems using
		trigonometric ratios.
		Determine the area of a triangle using
		trigonometric ratios.
Unit 4: Right Triangle Trigonometry		
Lesson 11: Derive Formula for Area of a Triangle		Derive the formula A = 12
a mangle		ah sin(C) for the area of a triangle
		ab sin(C) for the area of a triangle.
		Determine the area of a triangle given two
	G.SRT.8	side lengths and the measure of the
	G.SRT.9	included angle.
		Prove the law of sines.
Unit 4: Right Triangle Trigonometry		Use the law of sines to determine the
Lesson 12: Law of Sines		missing angle measure or side lengths in a
	G.SRT.10	triangle.
	G.SRT.11	

		Solve real-word problems using the law of
		sines.
		Prove the law of cosines.
Unit 4: Right Triangle Trigonometry		
Lesson 13: Law of Cosines	G.SRT.10	Solve real-world problems using the law of
	G.SRT.11	cosines.
		Use the law of sines to determine the
Hatta A. Bisha Tita sala Tita sa sa sa sa		missing angle measure or side lengths in a
Unit 4: Right Triangle Trigonometry		triangle.
Lesson 14: Apply the Laws of Sines		
and Cosines		Use the law of cosines to determine the
		missing angle measure or side lengths in a
	G.SRT.11	triangle.
		Use today's lesson time to prepare for the
		Unit Test. You may
		Revisit Review activities located before
Unit 4: Right Triangle Trigonometry		each quiz in the unit.
Lesson 15: Unit Review	G.SRT.5	Look at the Summary activities in each
Lesson 151 office Neview	G.SRT.6	lesson.
	G.SRT.7	Read through the Reference Guide
	G.SRT.8	pages linked in each lesson.
	G.SRT.9 G.SRT.10	Ask for holp on any Dractice problems you
	G.SRT.10 G.SRT.11	Ask for help on any Practice problems you did not fully understand.
	G.SRT.5	did flot fully diffderstalld.
	G.SRT.6	
Unit 4: Right Triangle	G.SRT.7	
TrigonometryLesson 16: Unit Test	G.SRT.8	
riigonometi yeesson 10. omt 1est	G.SRT.9	
	G.SRT.10	Demonstrate knowledge on concepts in this
	G.SRT.11	unit.
	A.CED.4	
	G.C.1	
	G.C.2	
	G.C.3	
	G.C.4	
	G.C.5	
	G.CO.1	
Geometry Checkpoint 4	G.GMD.1	
	G.GMD.2	
	G.GMD.3	
	G.GPE.7	
	G.SRT.3	
	G.SRT.4	
	G.SRT.5	Demonstrate knowledge on consents in this
	G.SRT.6	Demonstrate knowledge on concepts in this
	G.SRT.7	semester.

	G.SRT.8	
	G.SRT.9	
	G.SRT.10	
	G.SRT.11	
		Derive the equation of a specific circle, given
		its center and radius.
Unit 5: Conic Sections		
Lesson 1: Exchange Ideas: Conic		Determine the center or radius of a circle,
Sections		given its equation in standard form.
Sections		
		Determine the equation of a circle in
	G.GPE.1	standard form.
		Identify the shapes of two-dimensional
Unit 5: Conic Sections		cross sections of three-dimensional objects.
Lesson 2: Introduction to Conic		
Sections		Identify the conic section that results from
	G.GMD.4	the intersection of a cone and a plane.
	J. J. M. T.	Derive the equation of a specific circle, given
		its center and radius.
		its center and radius.
Unit 5: Conic Sections		Determine the center or radius of a circle
Lesson 3: Circles 1		Determine the center or radius of a circle,
		given its equation in standard form.
		Determine the equation of a sirale in
	C CDE 1	Determine the equation of a circle in
	G.GPE.1	standard form.
		Use today's lesson time to prepare for the
		Unit Test. You may
		Revisit Review activities located before
Unit 5: Conic Sections		each quiz in the unit.
Lesson 4: Your Choice		Look at the Summary activities in each
Lesson 4. Tour Choice		lesson.
		 Read through the Reference Guide
	G.GMD.4	pages linked in each lesson.
	G.GPE.1	
	G.GPE.2	Ask for help on any Practice problems you
	N.Q.2	did not fully understand.
		Determine the equation of a circle in
Unit 5: Conic Sections		general form.
Lesson 5: Circles 2		
		Determine the center or radius of a circle,
	G.GPE.1	given its equation in general form.
		Determine the coordinates of the vertex of a
Unit 5: Conic Sections		parabola, given its equation in graphing
Lesson 6: Parabolas 1	G.GPE.2	form.
	N.Q.2	
	– , . – ,	1

		Determine the coordinates of the focus of a
		parabola, given its equation in graphing
		form.
		Determine the constitute of the discrete
		Determine the equation of the directrix of a
		parabola, given its equation in graphing
		form.
		Derive the equation of a specific parabola,
		given its focus and directrix.
		Determine the coordinates of the directrix
		of a parabola, given its equation in standard
		form.
Unit 5: Conic Sections		101111.
Lesson 7: Parabolas 2		Determine the coordinates of the vertex of a
		parabola, given its equation in standard
		form.
		Determine the coordinates of the focus of a
	G.GPE.2	parabola, given its equation in standard
	N.Q.2	form.
		Use today's lesson time to prepare for the
		Unit Test. You may
		, in the second
		 Revisit Review activities located before
		each quiz in the unit.
Unit 5: Conic Sections		 Look at the Summary activities in each
Lesson 8: Unit Review		lesson.
		 Read through the Reference Guide
	G.GMD.4	pages linked in each lesson.
	G.GPE.1	
	G.GPE.2	Ask for help on any Practice problems you
	N.Q.2	did not fully understand.
	G.GMD.4	,
Unit 5: Conic Sections	G.GPE.1	
Lesson 9: Unit Test	G.GPE.2	Demonstrate knowledge on concepts in this
	N.Q.2	unit.
Unit 6: Modeling with Geometry		
Lesson 1: Exchange Ideas: Modeling		
with Geometry		Solve design or optimization problems using
·	G.MG.3	properties of geometric figures.
Unit 6: Modeling with Geometry		
Lesson 2: Cross Sections of Three-		
Dimensional Objects	C C14D 4	Identify the shapes of two-dimensional
Link C. Mardallar 194 C	G.GMD.4	cross sections of three-dimensional objects.
Unit 6: Modeling with Geometry		
Lesson 3: Three-Dimensional Objects		Determine the shape that will be created
Generated by Rotating Two-		when a two-dimensional object is rotated
Dimensional Objects	G GMD 4	
	G.GMD.4	about an axis.

		Has to do do los con the control of the d
		Use today's lesson time to prepare for the
		Unit Test. You may
		Revisit Review activities located before
		Revisit Review activities located before each quiz in the unit.
Unit 6: Modeling with Geometry		Look at the Summary activities in each
Lesson 4: Your Choice		lesson.
		 Read through the Reference Guide
	G.GMD.4	pages linked in each lesson.
	G.MG.1	
	G.MG.2	Ask for help on any Practice problems you
	G.MG.3	did not fully understand.
Unit 6: Modeling with Geometry		Use properties of geometric shapes to
Lesson 5: Geometry on Earth	G.MG.1	describe or approximate measures of real-
,	N.Q.3	world objects.
Unit 6: Modeling with Geometry		
Lesson 6: Manufacturing: Design and		Calculation of the control of
Optimization	0.1.2.5	Solve design or optimization problems using
·	G.MG.3	properties of geometric figures.
Unit 6: Modeling with Geometry	G.MG.1	Approximate measures of real-world objects
Lesson 7: Geometric Modeling	0.MG.1 N.Q.3	using properties of geometric shapes.
+	14.4.5	Solve problems involving population
Unit 6: Modeling with Geometry		density.
Lesson 8: Density		
Lesson 6. Density		Solve problems involving density, mass, and
	G.MG.2	volume.
	_	Solve real-world problems using concepts of
Unit 6: Modeling with Geometry		density.
Lesson 9: Fermi Problems		
	G.MG.2	Solve a Fermi problem.
		Use today's lesson time to prepare for the
		Unit Test. You may
		Revisit Review activities located before
		each quiz in the unit.
Unit 6: Modeling with Geometry		Look at the Summary activities in each
Lesson 10: Unit Review		lesson.
		Read through the Reference Guide
	G.GMD.4	pages linked in each lesson.
	G.MG.1	
	G.MG.2	Ask for help on any Practice problems you
	G.MG.3	did not fully understand.
	G.GMD.4	·
Unit 6: Modeling with Geometry	G.MG.1	
Lesson 11: Unit Test	G.MG.2	Demonstrate knowledge on concepts in this
<u> </u>	G.MG.3	unit.

	T	T
		Use properties of geometric shapes to
		describe or approximate measures of real-
		world objects.
Unit 7: Project: Storage Site		
Lesson 1: Project: Storage Site		Solve real-world problems using concepts of
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	G.MG.1	density.
	G.MG.2	
	G.MG.3	Solve design or optimization problems using
	N.Q.3	properties of geometric figures.
		Use properties of geometric shapes to
		describe or approximate measures of real-
		world objects.
Unit 7: Project: Storage Site		
Lesson 2: Project Writing 1		Solve real-world problems using concepts of
	G.MG.1	density.
	G.MG.2	
	G.MG.3	Solve design or optimization problems using
	N.Q.3	properties of geometric figures.
		Use properties of geometric shapes to
		describe or approximate measures of real-
		world objects.
Unit 7: Project: Storage Site		
Lesson 3: Project Writing 2		Solve real-world problems using concepts of
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	G.MG.1	density.
	G.MG.2	
	G.MG.3	Solve design or optimization problems using
	N.Q.3	properties of geometric figures.
		Use properties of geometric shapes to
		describe or approximate measures of real-
		world objects.
Unit 7: Project: Storage Site		
Lesson 4: Project Writing 3		Solve real-world problems using concepts of
, ,	G.MG.1	density.
	G.MG.2	
	G.MG.3	Solve design or optimization problems using
	N.Q.3	properties of geometric figures.
		Use properties of geometric shapes to
		describe or approximate measures of real-
		world objects.
Unit 7: Project: Storage Site		
Lesson 5: Project Reflection		Solve real-world problems using concepts of
,	G.MG.1	density.
	G.MG.2	
	G.MG.3	Solve design or optimization problems using
	N.Q.3	properties of geometric figures.
Unit 8: Geometry Semester A and B		
Assessments	A.CED.4	
Lesson 1: Semester A Test, Parts 1 and	G.C.1	Demonstrate knowledge on concepts in this
2	G.C.2	semester.
	G.C.3	

	G.C.4	
	G.C.5	
	G.CO.1	
	G.GMD.1	
	G.GMD.2	
	G.GMD.3	
	G.GMD.4	
	G.GPE.7	
	G.MG.1	
	G.MG.2	
	G.MG.3	
	G.GPE.1	
	G.GPE.2	
	G.SRT.3	
	G.SRT.4	
	G.SRT.5	
	G.SRT.6	
	G.SRT.7	
	G.SRT.8	
	G.SRT.9	
	G.SRT.10	
	G.SRT.11	
	N.Q.2	
	A.CED.4	
	G.C.1	
	G.C.2	
	G.C.3	
	G.C.4	
	G.C.5	
	G.CO.1	
	G.GMD.1	
	G.GMD.2	
	G.GMD.3	
	G.GMD.4	
	G.GPE.7	
Unit 8: Geometry Semester A and B	G.MG.1	
Assessments	G.MG.2	
Lesson 2: Your Choice	G.MG.3	
	G.GPE.1	
	G.GPE.2	
	G.SRT.3	
	G.SRT.4	
	G.SRT.5	
	G.SRT.6	
	G.SRT.7	
	G.SRT.8	
	G.SRT.9	
	G.SRT.10	Danis and the bound of the control o
	G.SRT.11	Demonstrate knowledge on concepts in this
		semester.
	N.Q.2	

	A.CED.4	
	G.C.1	
	G.C.2	
	G.C.3	
	G.C.4	
	G.C.5	
	G.CO.1	
	G.GMD.1	
	G.GMD.2	
	G.GMD.3	
	G.GMD.4	
Unit 8: Geometry Semester A and B	G.GPE.7	
Assessments	G.MG.1	
Lesson 3: Semester B Test, Parts 1 and	G.MG.2	
2	G.MG.3	
_	G.GPE.1	
	G.GPE.2	
	G.SRT.3	
	G.SRT.4	
	G.SRT.5	
	G.SRT.6	
	G.SRT.7	
	G.SRT.8	
	G.SRT.9	
	G.SRT.10	Demonstrate knowledge on concepts in this
	G.SRT.11	semester.
	N.Q.2	3663661.