# Pacing & Curriculum Guide

## Geometry Honors – 1206320



Part I

Geometry Honors Course Description Mathenatical Thinking & Reason Standards 9-12 ELA & ELD Standards Proficieny Scale Units Paciologart

Units At-AGlance Calenar

Part II

Teacher & Student Critical Concepst With B.E.S.T. standards embedded

REVISED ~ July 202

The PacingGuide and Guidesvillbereviewed and reifised essary everyyear.

ELA & ELD Guide



## SY 2024-25

Classroom
Expectations
Unit 0: Algebra 1/
Prerequisite Skills
Review
Unit 1: Basics of
Geometry and
Constructions

Unit 3: Lines and
Angles
Unit 4: Rigid
Motions and
Congruence
Unit 5: Triangle
Congruence

Unit 5: Triangle

#### GeometryHonors-Course Code: 126320



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10 da <b>y</b>	5 Trangle Cogence	MA.912.GR.1.2 MA.912.GR.1.6 MA.912.GR.2.1 MA.912.GR.2.3 MA.912.GR.2.6 MA.912.GR.5.1 MA.912.LT.4.10 Honors Only: MA.912.GR.2.7	Stlenst/I: f Gall 11 S02P0d/ac conangle.comggty.en/d2 [6Si}i4n94 (d)t6.fs(in)g2S4d(in)S6die (Si)dw.OS0f2-Anh gi)6.Si(f)toAngli2.Si(f)t-1.8c 0 Tw ol (i)5. Angle, Angle-Angle-Side, Angle-Angle and Hypotenuse-L308t30c (Tw 52[P)-2(rov)2558)efEt/UBrow

GeometryHonors-Course Code: 106320



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	у				Stdensi/I:	
			11	MA.912.GR.1.3 MA.912.GR.5.2	f	
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			in Pogons Wha Cicles	Honors only: MA.912.GR.5.4		

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	Teacher Critical Concept	UNIT 1
Geometry	Basics of Geometry and Constructions	MA.912.GR.2.2 MA.912.GR.2.3 MA.912.GR.2.6 MA.912.GR.2.8
Honors		MA.912.GR.5.1 MA.912.GR.5.2 MA.912.GR.2.4 Honors Only

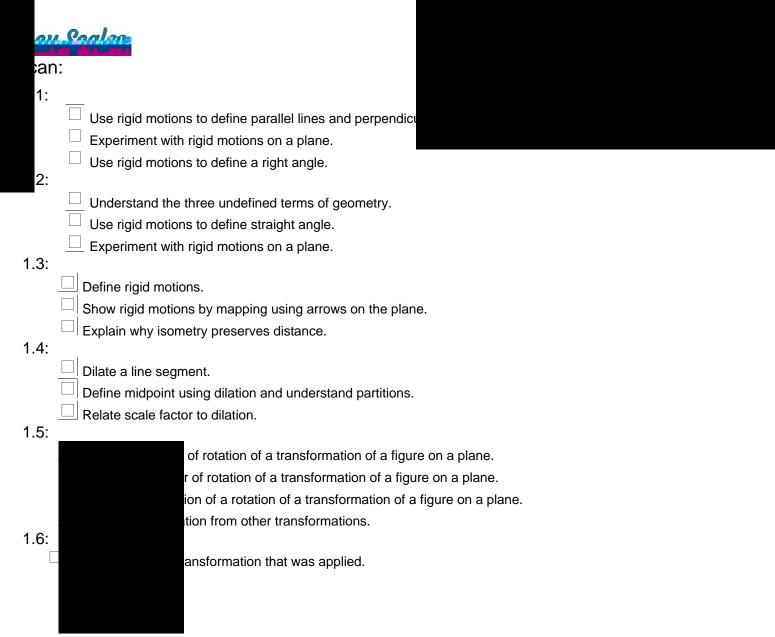
**9** Topic 4 : MA.912.GR.2.8 Apply an appropriate transformation to map one figure onto another to justify that the two figures are similar.

ŠClarification 1: Instruction includes showing that corresponding sides are proportional and that corresponding angles are congruent.

- **9** Topic 5: MA.912.GR.5.1 Construct a copy of a segment or angle. ŠClarification 1: Instruction includes using a compass, straight edge, string, reflective devices, paper folding or dynamic geometric software.
- 9 Topic 6: MA.912.GR.5.2 Construct the bisector of a segment or an angle, including the perpendicular bisector of a line segment. Š & ODULILFDWLRQ , QVWUXFWLRQ LQFOXGHV XVLQJ D FRPSDVV VWUDLJKW HGJH V reflective devices, paper folding or dynamic geometric software.
- **9** Topic 7: Honors Only MA.912.GR.2.4 De termine symmetries of reflections, rotations and translations of geometric figures.
  - o Clarification1: Instruction includes determining the order of each symmetry.
  - o Clarification 2: Instruction includes the connection between

	ŠDescri ŠRecog angles o ŠWrite a transforr after a d 9 Topic 4 ŠConst perpend ŠUse th ŠUse rig the endp 9 Topic 7:	<ul> <li>a and 4 :</li> <li>be a single transformation that was applied</li> <li>nize the relationship between corresponding sides and corresponding f congruent and similar figures.</li> <li>a congruency statement to relate corresponding parts after a nation. Also write a similarity statement to relate corresponding parts lation.</li> <li>a and 6:</li> <li>b and 6:</li> <li>b and 6:</li> <li>b and a nagle bisector.</li> <li>b a segment addition and angle addition postulates.</li> <li>b and motions to show that a triangle formed by drawing two segments from oints of a segment to a point on the perpendicular bisector is isosceles.</li> <li>b Honors Only</li> <li>nine symmetries of reflections, rotations and translations.</li> </ul>	<ul> <li>Rotation</li> <li>Translation</li> <li>Isometry</li> <li>Ruler Postulate</li> <li>Collinear Points</li> <li>Segment Addition Postulate</li> <li>Ray</li> <li>Angle Addition Postulate</li> </ul>	<ul> <li>Tessellation</li> <li>Symmetry</li> <li>Segment Bisector</li> <li>Right Triangle</li> <li>Isosceles Triangle</li> <li>Perpendicular Bisector</li> <li>Angle Bisector</li> </ul>
1.5		Partial success at score 2.0 content, and major errors or omissions regarding score 3.0 content.		
1.0	With help, pa	rtial success at score 2.0, content and score 3.0 content.		
0.5		With help, partial success at score 2.0 content but not at score 3.0 content.		
0	Even with he	lp, no success.		

Droficionau Santa		
Student Name:	Student Critical Concept	UNIT 1
·	Basics of Geometry and Constructions	•



2.0

Geometry Nation

### Proficionau Scalar

	1.8:	Determine symmetries of translation.	
	I.O. 	Construct a copy of a line segment.	
		Use the segment addition postulate.	
	1.9:		
		Construct a copy of an angle.	
		Use the angle addition postulate.	
	1.10:		
		Construct the bisector of a segment.	
		Use the definition of a midpoint to solve problems.	
	1.11:		
		Construct a perpendicular bisector.	
		Use rigid transformations to show that an from the endpoints of a segment to a point on its perpendicular bisector is isosceles.	
	_	Use the properties of a perpendicu lar bisector to solve problems.	
	1.12:		
		Construct an angle bisector.	
1.5		I have partial success at 2.0 content.	
1.0	With he	elp, I have partial success at score 2.0, content and score 3.0 content.	
0.5			

Teacher Critical Concept Proofs and Logic

Geometry Honors UNIT 2

2.5

No major error or omissions regarding score 2.0 content, and partial success at score 3.0

content.

The student will:

9 Topic 1:

ŠUnderstand the difference between a definition, postulate and theorem. Also, what the role of a proof is.

ŠRelate the properties of equality and congruence.

ŠUse inductive and deductive reasoning to complete proofs based on an assumption or given.

ŠRecognize a paragra ph, flowchart and two -column proofs.

9 Topic 2:

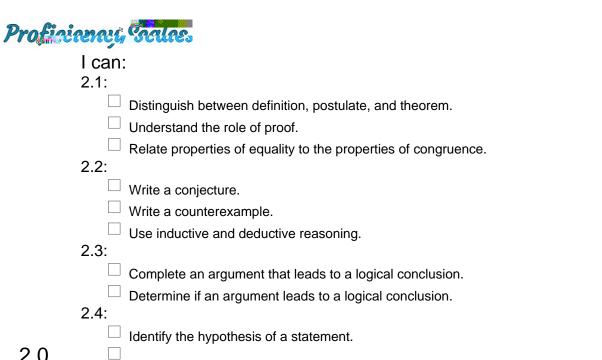
ŠWrite a conjecture and a counterexample. ŠComplete and determine if an argument leads to a logical conclusion. Reflect on the mathematical thinking found in a proof. ŠBe able to /MCID 21 >>BDC /C4>uCID 21 >>BDC /C4>uC.



Student Name:	Student Critical Concept		UNIT 2
Proofs and Log			MA.912.GR.1.1
M.C. Formative Assessment Name: DFA C	Geo Honors Unit 2 Proofs and Logic	My Score:	MA.912.LT.4.10 MA.912.LT.4.3

ment	By the end of the unit, I will be able to:	Resources & Assign	ments
Optional Enrichme	Be able to complete paragraph proofs, two -column proofs and flowchart proofs for the concepts previously learned.		
3.5	I have mastered 3.0 content and with help I am successful at 4.0 content		
	By the end of the unit, I will be able to:		

□ Goal 1-



	Teacher Critical Concept		UNIT 3
Geometry	Lines and Angles	MA.912.GR.1.1 MA.912.LT.4.10	
Honors	M.C. Formative Assessment Name: DFA Geo Honors Unit 3 Lines and Angles	MA.912.LT.4.3	

	The student will:	Resources & Assignments
4.0	9 Understand the relationships and theorems about lines, angles and continue their understanding of proofs.	
3.5	5	

Proficiency Scales				
Student Name: Student Critical Cond Lines and Angle		•	MA.912.GR.1.1	UNIT 3
M.C. Formative Assessment Name: DF	A Geo Honors Unit 3 Lines and Angles	My Score:	MA.912.LT.4.10 MA.912.LT.4.3	

E By t	the end of the unit, I will be able to:	Resources & Assignments
U U Cont	nderstand the relationships and theorems about lines, angles and	
A O	inue their understanding of proofs.	
Optional		
00		
3.5	I have mastered 3.0 content and with help I am successful at 4.0 content	

lati tra Top	<ul> <li>ic 4: MA.912.GR.2.5 Given a geometric figure and a sequence of sformations, draw the transformed figure on a coordinate plane. Clarification 1: Transformations include translations, dilations, rotations and reflections described using words or coordinates.</li> <li>stoosarif(173.3 (97c)13.3 (105 (173.4 fi)-13.4 (1713.4 preserve dmi)6.7 (0)-13.3 (t)6.7 (a)13.3 (t)6.7 (a)13.5 (t)6.5 (t)6.5 (t)6.7 (t)13.4 preserve dmi)6.7 (t)6.7 (a)13.5 (t)6.5 (t)6.5 (t)6.7 (t)13.4 preserve dmi)6.7 (t)6.7 (a)13.5 (t)6.5 (t)6.5 (t)6.7 (t)13.4 preserve dmi)6.7 (t)6.7 (t)6.7</li></ul>	3 (n)-6.7 ce.
2.5	No major error or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
The stude		

#### Topic 1:

 $\tilde{\mathbf{S}}$  Relate a translation, rotation and reflection on the coordinate plane to an algebraic notation of the transf. (Bar() 3.3 @ 113 Tdco) n.0



Student Critical Concept Rigid Motions and Congruence

### UNIT 4

Geometry Nation

Geometry Honors

	Teacher Critical Concept	Unit 5
Geometry	Triangle Congruence	MA.912.GR.1.2, MA.912.GR.1.6, MA.912.GR.2.1, MA.912.GR.2.3,
Honors	M.C. Formative Assessment Name:	MA.912.GR.2.6, MA.912.GR.5.1, MA.912.LT.4.10
	DFA Geo Honors	MA.912.GR.2.7 Honors Only

	<ul> <li>Topic 4: MA.912.GR.2.3 Identify a sequence of transformations that will map a given figure onto itself or onto another congruent or similar figure.         <ul> <li>Clarification 1: Instruction includes the understanding that when a figure is mapped onto itself using a reflection,, it occurs over a line of symmetry.</li> </ul> </li> <li>Topic 5: MA.912.GR.2.6 Apply rigid transformations to map one figure onto another to justify that the two figures are congruent.         <ul> <li>Clarification 1: Instruction includes showing that the corresponding sides and the corresponding angles are congruent.</li> <li>Clarification 1: Instruction includes using compass and straightedge, string, reflective devices, paper folding or dynamic geometric software.</li> </ul> </li> <li>Topic 7: Honors Only - MA.912.GR.2.7 Justify the criteria for triangle congruence using the definition of congruence in terms of rigid</li> </ul>	
2	transformations.       organization         5       No major error or omissions regarding score 2.0 content, and partial success at score 3.0 content.	
2.0	<ul> <li>The student will:</li> <li>Topic 1: <ul> <li>Use constructions to determine if SAS congruence can be used to show that two triangles are congruent.</li> <li>Use constructions to determine if ASA congruence can be used to show that two triangles are congruent.</li> <li>Use constructions to determine if SSA congruence can be used to show that two triangles are congruent.</li> <li>Use constructions to determine if AAS congruence can be used to show that two triangles are congruent.</li> <li>Use constructions to determine if AAS congruence can be used to show that two triangles are congruent.</li> <li>Use constructions to determine if AAS congruence can be used to show that two triangles are congruent.</li> <li>Be able to determine if HL congruence can be used to show that two triangles are congruent using deduction.</li> <li>Be able to prove two triangles are congruent using SSS, SAS, ASA, AAS, or HL congruence.</li> <li>Understand how to use corresponding parts of congruent triangles in a proof.</li> <li>Be able to prove parts of triangles are congruent using triangle congruence and corresponding parts of congruent triangles.</li> </ul> </li> </ul>	The student will recognize or recall specific vocabulary:• Side-Side- Side (SSS)• Transformation • Corresponding Parts of Congruent Triangles are Congruent (CPCTC)• Angle Angle (ASA)• Corresponding Parts of Congruent (CPCTC)• Angles • Congruence • Rigid Motions• Corresponding parts of congruent parts of congruent of congruent of congruent parts of congruent
	<ul> <li>Topic 2:         <ul> <li>Be able to solve mathematical and real-world problems involving congruence</li> <li>Be able to use corresponding parts of congruent triangles to write congruence statements.</li> </ul> </li> <li>Topic 3:         <ul> <li>Use constructions and transformations to determine if SSS congruence can be used to show that two triangles are congruent.</li> </ul> </li> </ul>	

#### **Topic 4:**

• Be able to use definitions, properties, postulates, and theorems to draw conclusions about triangles from given information.

#### **Topic 5:**

• Be able to relate the definition of congruence in terms of rigid motions to



#### I can:

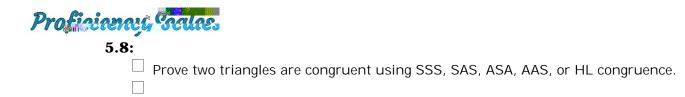
5.1:

Use constructions to determine if SSS congruence can be used to show that two triangles are congruent.

#### 5.2:

- Use constructions to determine if SAS congruence can be used to show that two triangles are congruent.
- Use constructions to determine if ASA congruence can be used to show that two triangles are congruent.
- □ Use constructions to determine if SSA congruence can be used to show that two triangles are congruent.

5.3:



	Teacher Critical Concept	Unit 6
Geometry Honors	Dilations and Similarity	MA.912.GR.1.2, MA.912.GR.1.6, MA.912.GR.2.1, MA.912.GR.2.2, MA.912.GR.2.3, MA.912.GR.2.5, MA.912.GR.2.8
		Honors Only

• Clarification 1: Instruction includes the understanding that when a figure is mapped onto itself using a reflection it occurs over a line of symmetry.

Торіс

- o Describe a dilation by giving the scale factor and center of dilation.
- o Describe a sequence of transformations that includes a dilation.
- Represent a sequence of transformations using coordinate notation with algebraic descriptors.

#### **Topic 2:**

- Use a description of a sequence of transformations to determine if the transformation does or does not preserve distance.
- Draw a sequence of transformations to determine if the transformation does or does not preserve distance.
- o Identify transformations that do or do not preserve distance.

#### **Topic 3:**

 Describe and represent a sequence of transformations that will map the preimage onto the image.

#### **Topic 4:**

• Draw the transformed figure when given a geometric figure and a sequence of transformations as a written description or an algebraic description.

#### **Topic 5:**

- o Identify similar triangles and write similarity statements.
- Use given information to show that two triangles are similar.
- Use triangle similarity to prove triangles are similar.

## Proficiancy Scales

	Goal 7 - Solve mathematical and real-world problems involving congruence or similarity in two-dimensional figures.	
	Goal 8 - Honors Only - Justify the criteria for triangle similarity using the definition of similarity in terms of nonrigid transformations.	
	Goal 9 - Honors Only - Apply transformations to prove that all circles are similar.	
	Goal 10 - Honors Only - Construct proofs, including proofs by contradiction.	
2.	I have mastered 2.0 content and with help I am successful at 3.0 content.	
	I can: 6.1:	I will be able to recognize or recall specific vocabulary:
	Write an algebraic description using coordinate notation of a dilation on a coordinate plane.	
	$\Box$ Describe a dilation by giving the scale factor and center of dilation. <b>6.2:</b>	
	$\square$ Describe a sequence of transformations that includes a dilation.	
	Represent a sequence of transformations using coordinate notation with algebraic descriptors.	
	6.3:	
2.0	Use a description of a sequence of transformations to determine if the transformation does or does not preserve distance.	
	Draw a sequence of transformations to determine if the transformation does or does not preserve distance.	
	Identify transformations that do or do not preserve distance. 6.4:	
	Represent a sequence of transformations that will map the preimage onto the image.	
	Describe a sequence of transformations that will map the preimage onto the image.	
	$\square$ Identify transformations that do or do not preserve distance.	
	Use a description of a sequence of transformations to determine if the transformation does or does not preserve distance.	

# Proficiancy Scales

	6.5:	
	Draw the transformed figure when given a geometric figure and a sequence of transformations as a written description or an algebraic description.	
	6.6:	
	$\Box$ Map one similar figure onto another and justify that the figures are similar.	
	Describe a sequence of transformations that will map the preimage onto the image.	
	6.H1:	
	Justify that two circles are similar and conclude that any circle can be mapped to another circle using similarity transformations.	
	6.H2:	
	<ul> <li>Use proof by contradiction to justify that all circles are similar.</li> <li>6.7:</li> </ul>	
	$\square$ Identify similar triangles and write similarity statements.	
	$\Box$ Use given information to show that two triangles are similar.	
	6.8:	
	Use triangle similarity to prove triangles are similar.	
	<b>6.9:</b> Use triangle similarity to prove that triangles are similar.	
	<ul> <li>Use triangle similarity to prove that triangles are similar.</li> <li>6.H3:</li> </ul>	
	<ul> <li>Use the definition of similarity to justify that SSS similarity, SAS similarity, and</li> <li>AA similarity are sufficient to show that two triangles are similar.</li> </ul>	
	<b>6.10</b> :	
	Solve mathematical and real-world problems using corresponding angles and sides of similar figures.	
	6.11:	
	<ul> <li>Solve mathematical problems involving similarity in two-dimensional figures</li> <li>6.12:</li> </ul>	
	• Solve mathematical and real-world problems involving similarity in two-	
	dimensional figures.	
	6.13:	
	Solve mathematical and real-world problems involving similarity in two- dimensional figures	
	dimensional figures.	
1.5	I have partial success at 2.0 content.	
1.0	With help, I have partial success at score 2.0, content and score 3.0 content.	
0.5	With help, I have partial success at 2.0 content.	
0	Even with help, I have no success.	

	Teacher Critical Concept	Unit 7
Geometry	Trigonometric Ratios	MA.912.T.1.1, MA.912.T.1.2, Honors Only
Honors	M.C. Formative Assessment Name: DFA Geo Honors Unit 7 Trigonometric Ratios	MA.912.T.1.3, MA.912.T.1.4

4.0	Use an understanding of the Pythagorean Theorem and similar triangles to	
	develop and apply the definitions of sine, cosine, and tangent.	
3.5	In addition to score 3.0 performance, partial success at score 4.0 content.	
	<ul> <li>Topic 1: MA.912.T.1.1 Define trigonometric ratios for acute angles in right triangles.</li> <li>Clarification 1: Instruction includes using the Pythagorean Theorem and using similar triangles to demonstrate that trigonometric ratios stay the same for similar right triangles.</li> <li>Clarification 2: Instruction includes using the coordinate plane to make connections to the unit circle.</li> <li>Clarification 3: Trigonometric ratios are limited to sine, cosine, and tangent.</li> </ul>	
3.0	<ul> <li>Topic 2: MA.912.T.1.2 Solve mathematical and real-world problems involving right triangles using trigonometric ratios and the Pythagorean Theorem.</li> <li>Clarification 1: Instruction includes procedural fluency with the relationships of side lengths in special right triangles having angle measures of 30° – 60° – 90° and 45° – 45° – 90°.</li> </ul>	

Law of Cosines to solve mathematical and real-world problems involving

2.	5 No major error or omissions regarding score 2.0 content, and partial success a	t score 3.0 content.
2.0	<ul> <li>The student will:</li> <li>Topic 1: <ul> <li>Find the missing side of a right triangle using the Pythagorean Theorem.</li> <li>Define sine and cosine using similar triangles.</li> <li>Use the ratios of sine and cosine to define the tangent ratio.</li> <li>Determine trigonometric ratios using the coordinate plane.</li> <li>Use trigonometric ratios to find the side and an angle of a right triangle.</li> <li>Use side ratios of 45-45-90 and 30-60-90 triangles to solve problems.</li> <li>Explore relationships between the coordinates of vertices when the triangle different quadrants.</li> </ul> </li> <li>Topic 2: <ul> <li>Use trigonometric ratios and the Pythagorean Theorem to solve mathemati real-world problems.</li> </ul> </li> <li>Topic 3: Honors Only <ul> <li>Solve mathematical and real-world problems involving triangles using the Sines and the Law of Cosines.</li> </ul> </li> <li>Topic 4: Honors Only <ul> <li>Find the area of a triangle using the sine ratio.</li> </ul> </li> </ul>	The student will recognize or recall specific vocabulary:• Hypotenuse • Pythagorean 
1.	5 Partial success at score 2.0 content, and major errors or omissions regarding	g score 3.0 content.
1.0	With help, partial success at score 2.0, content and score 3.0 content.	
0.	5 With help, partial success at score 2.0 content but not at score 3	.0 content.
0	Even with help, no success.	



2.5

No major error or omissions regarding score 2.0 content, and partial success at score 3.0 content.

#### The student will:

#### **Topic 0:**

o Determine the interior angle sum of polygons with different number of sides.

#### **Topic 1:**

- o Define a parallelogram.
- Prove opposite sides and opposite angles of a parallelogram are congruent.
- o Prove consecutive angles of a parallelogram are supplementary.
- o Prove diagonals of a parallelogram bisect each other.
- Be able to determine if a quadrilateral is a parallelogram using properties of a parallelogram.
- o Prove rectangles are parallelograms.
- o Use properties of parallelograms to identify special parallelograms.
- Use properties of a parallelogram, kites, and special parallelograms to solve marthe(maphegatran5cdPr(#bl-1.1(e)1.a(r)-2c11h o(p)-1a52 Tw 32.491 0 Td()TEMo)-1.8 (f)3.840.599 0 Td()TFT2 1 Tf0.0016c -0.003 C2

### Proficiency Scales

2.5	I have mastered 2.0 content and with help I am successful at 3.0 content.	
I car 8.0:	Determine the interior angle sum of polygons with different number of sides.	I will be able to recognize or recall specific vocabulary:
8.1:	Define a parallelogram.	Parallelogram
	Prove opposite sides and opposite angles of a parallelogram are congruent.	Kite Quadrilateral
	Prove consecutive angles of a parallelogram are supplementary.	Rectangle
	Prove diagonals of a parallelogram bisect each other.	
8.2:	Determine if a quadrilateral is a parallelogram using properties of a parallelogram.	Trapezoid Isosceles Trapezoid
8.3:	Prove rectangles are parallelograms.	
	Use properties of parallelograms to identify special parallelograms.	
8.4:	Use properties of a parallelogram, kites, and special parallelograms to solve real- world problems.	
8.5:	Prove relationships and theorems about trapezoids.	
	Use relationships and theorems about trapezoids.	
8.6:	Use properties of parallelograms to solve real-world problems.	
	Use properties of trapezoids to solve real-world problems.	
8.7:	Prove the trapezoid midsegment theorem.	
	Use properties of trapezoids to solve mathematical and real-world problems.	

	Teacher Critical Concept	UNIT 9
Geometry Honors	Two- and Three- Dimensional Shapes	MA.912.GR.4.1 MA.912.GR.4.2
	· · ·	MA.912.GR.4.2 MA.912.GR.4.3 MA.912.GR.4.4
		MA.912.GR.4.4 MA.912.GR.4.5
		MA.912.GR.4.6

Topic 5: GR.4.3- Extend previous understanding of scale drawings and scale factors to determine how dilations affect the area of twodimensional figures and the surface area or volume of three-dimensional figures.

2.5

No major error or omissions regarding score 2.0 content, and partial success at score 3.0 content.



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	Two- and Three- Dimensi	onal Shapes	MA.912.GR.4.1 MA.912.GR.4.2
		My Score:	MA.912.GR.4.3
M.C. Formative Assessment Name: DFA Geo Honors Unit 9 Two - and Three -			MA.912.GR.4.4 MA.912.GR.4.5
Dimensional Shapes			MA.912.GR.4.6

E By the end of the unit, I will be able to:	Resources & Assignments
Find the area, density, surface area, and volume of two - and three- dimensional shapes.	
3.5 I have mastered 3.0 content and with help I am successful at 4.0 content By the end of the unit, I will be able to:	

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I can		
9.1:		
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	Sbereal-bool pleshbig he bace a easo cipe fignes	
9.10:		

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	Teacher Critical Concept	UNIT 10	
Geometry Honors	Arc s and Angle Relationships in Circles	MA.912.GR.6.2 MA.912.GR.6.4	
	M.C. Formative Assessment Name : DFA Geo Honors Unit 10 Arc s and Angle Relationships in Circles	MA.912.GR.6.4 MA.912.GR.5.5 Honors Only	

	The student will:		Resources & Assignments
4.0	9 Explore relationships that involve arc length and sectors.		
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The student will:

9 Topic 1:

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	Teacher Critical Concept	UNIT 11
	Justifying Relationships in Polygons	MA.912.GR.1.3
Geometry	with Circles	MA.912.GR.5.3 MA.912.GR.6.3
Honors	M.C. Formative Assessment Name: DFA Geo Honors Unit 11 Justifying Relationships in Polygons with Circles	MA.912.LT.4.10 MA.912.GR.5.2 MA.912.GR.5.4 - Honors only

	The studer	nt will:	Resources & Assignments
4.0		relationships of figures inscribed in a circle as well as cribed circles.	
3.	.5	In addition to some 3.0 performae, patiasess a some 4.0 ontent.	
	The student	will:	
3.0	triangles postulate o fi i t t t i a o fi i t t t i a o fi 9 Topic 2: circles o o fi 9 Topic 2: circles o o fi 9 Topic 2: circles o 0 0 0	MA.912.GR.1.3 - Prove relationships and theorems about and solve mathematical and real-world problems involving es, relationships, and theorems of triangles. At fistion 1: Potates, relationships ad theorems inde measues of interior a gles of atriagle suito 10 measues of act of exterior agles of a criagle suito 30° triagle inequity theorem be agles of isoseles criagles are orgrant; the segment joining midpoints of twisides of atriagle is patient to the third side ad har the length; the medias of atriagle meet at point. At fistion 2: Instruction indees on structing two -dum proofs, pictoria proofs, pagraph ad narative proofs, flowart proofs or informaproofs. At fistion 3: Instruction foses on helping astdent bose are thod they a sere reliay MA.912.GR.5.3 - Construct the inscribed and circumscribed of a triangle. (also assesses MA.912.GR.5.2) At fistion 1: Instruction indees sing ampas ad strightedge, string, reflective devices, paper folding or dynaigemetricsoftare. MA.912.GR.6.3 - Solve mathematical problems involving triangles drilaterals inscribed in a circle.	
		à filitation 1: Instrution intides triagles in airte ad semicrite.	
	inscribed	MA.912.GR.5.4 Honors Only - Construct a regular polygon d in a circle (limited to triangles, quadrilaterals, and hexagons.) a if ide ion 1: When given air be, the enter most be provided.	

0	Caifiat ion 2: Instration intedes sing ampass ad straghtedge, string, reflective devices, paper folding or dynaiogeometricsoftane.
2.5	Nmpaor error or omissions regading sore 2.0 ontent, and patilasess a sore 3.0 ontent.
The stude	ent will:
9 Topic	1:
	Showthat the smuof the interior angles of atriangle is 10 degrees.
0	Showthat the sound the exterior angles of atriangle is 30 degrees.
0	Determine is a set of triagle side lengths a b sed to onstru atriagle
0	be the triagle inequity theorem to prove relationships in triagles.
0	Find the entroid of atriagle.
0	be the relationship of the distae æntroid is from ærtexto the midpoint of
	the opposite side to solve probems.
0	Dsozer the triagle midseg ment theorem sing Asimilaity
0	be the triagle midsegment theorem to prove relationships ad to solve
	priteins.
0	Sole mahemailand rela -world probems invling postulaes, relationships,
	ad theorems of triagles.
9 Topic	
0	State that a triagles immenter is the point equidistat from a three verties
	of the triagle.
0	polan that atriangles immenter is beso the enterofits immescibed in ice260)1.2 (en)990() miricol∭231811628 334.60√608828 polan that atri:

9 Topic 4 Honors Only:

Droficianau Caalaa			
Student Name:	Student Critical Conce		UNIT 11
	Justifying Relationships	in Polygons	MA.912.GR.1.3
	with Circles		MA.912.GR.5.2 MA.912.GR.5.3
		My Score:	MA.912.GR.6.3
M.C. Formative Assessment Name: DF			MA.912.LT.4.10
Relationships in Polygons with Circ	cles		MA.912.GR.5.4 Honors only

B	By the end of the unit, I will be able to:	Resources & Assignments
	Solve and prove relationships using figures inscribed and circumscribed circles.	
4.C		
3.5	I have mastered 3.0 content and with help I am successful at 4.0 content.	
E	By the end of the unit, I will be able to:	
	‰ Goal 1 -Prove relationships and theorems about triangles and solve mathematical and real-world problems involving postulates, relationships, and theorems of triangles.	
	‰ Goal 2 - Construct the inscribed and circumscribed circles of a triangle.	
3.0	‰ Goal 3 - Solve mathematical problems involving triangles and quadrilaterals inscribed in a circle.	
	‰ Goal 4 Honors Only - Construct a regular polygon inscribed in a circle (limited to	

2	Drafiai	anou Canlar
		I can:
		<ul><li>11.1:</li><li>% Construct the circumscribed circle of a triangle.</li><li>% Locate the circumcenter of a triangle.</li></ul>
		<ul><li>11.2:</li><li>% Construct an inscribed circle in a triangle.</li><li>% Locate the incenter of a triangle.</li></ul>
		<ul><li>11.3:</li><li>Solve mathematical problems involving triangle s and quadrilaterals inscribed in a circle.</li></ul>
		11.4: ‰ Solve mathematical problems involving quadrilaterals inscribed in a circle.
	2.0	<ul> <li>11.5:</li> <li>% Show that the sum of the interior an gles of a triangle is 180 degrees.</li> <li>% Show that the sum of the exterior angles of a triangle is 360 degrees.</li> </ul>
		<ul> <li>11.6:</li> <li>% Determine is a set of triangle side leng</li> <li>% Use the triangle inequality theorem to</li> <li>ths can be used to construct a triangle.</li> <li>prove relationships in triangles.</li> </ul>
		<ul> <li>11.7:</li> <li>% Find the centroid of a triangle.</li> <li>% Use the relationship of the distance a centroid is from a vertex to the midpoint of the opposite side to solve problems.</li> </ul>
		11 0.

11.8:

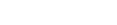
- $\%\,$  Discover the triangle midsegment theorem using AA similarity.
- ‰ Use the triangle midsegment theorem to pr obe relationships and to solve problems.

11.9:

‰ Solve mathematical and real-world problems involving postulates, relationships, and theorems of triangles.

11.H1:

- % Construct an equilateral triangle inscribed in a circle.
   % Construct a square inscribed in a circle.
- ‰ Cons9 -1lpJ /C2\_0 1 T1es.



**Geometry Honors** 



Geometry Nation

Student Name:	Student Critical Concept		UNIT 12
	Segment Relationships in C	Circles	MA.912.GR.6.1
M.C. Formative Assessment Name: DFA Relationships in Circles	A Geo Honors Unit 12 Segment	My Score:	MA.912.GR.7.2 MA.912.GR.7.3

4.0 By the end of the unit, I will be able to: Prove the relationships b1e3raB-4.1 (e rel)-5.3

Prove the relationships b1e3raB-4.1 (e rel)-5.3 (ati)-1.7 (o)-9.4 (n)-4.1 -9.4 (n)-4.1 4.22 (o)-9.4 (n)mmTw 3.727 0 Td ( (o)5.3 (reP)-2.2 f)-3 (th)

Geometry Honors

Proficiancy Salacs

I can: 12.1: Solve mathematical and real -

	Teacher Critical Concept	UNIT 13
Geometry	Shapes on a Coordinate Plane	MA.912.GR.3.1 MA.912.GR.3.2
Honors	M.C. Formative Assessment Name : DFA Geo Honors Unit 13 Shapes on a Coordinate	MA.912.GR.3.3 MA.912.GR.3.4
	Plane	MA.912.GR.7.2

	The student will:	Resources & Assignments
4.0	9 Use coordinate geometry to apply relationships learned throughout the course.	
I		



I can:

13.1:

‰ Use coordinate geometry to identify parallel and perpendicular lines.

13.2:

13.3:

‰ Use coordinate geometry to determine parts of a circle in a mathematical context.

‰ Draw a circle using given definitions, properties, and theorems in a mathematical context.

2.0

‰ Determine whether a point is on the circumference of a circle, in a circle, or outside a circle.

‰ Find the center of a circle given two points.

‰ Write the equation of a circle given the endpoints of a diameter.

13.4:

‰ Use coordinate geometry to partition a line segment.

13.5:

‰