Course Name:	Geometry A	Geometry A	
Unit Name: U	nit 0: Preparing for Geometry		
Time Frame:	Weeks 1-2		
Unit Standards	A.1.a: Apply algebraic properties (e.g., commutative, associative, distributive, identity, inverse, substitution) to simplify algebraic expressions.		
	A.1.b: Solve single-step and multistep ed		
	A.1.e: Graph a linear equation using a ta	ble of values, x- and y-intercepts, or slope-intercept form.	
	A.1.f: Find the probability of a simple event.		
Unit Essential Questions	 What is chapter 0 about? Chapter 0 is a review of key Algebra concepts. Why do you think you would need Algebra concepts for Geometry? You will use algebraic concepts throughout the course of Geometry to solve basic problems and real world problems. 		
Unit Essential	1. experiment	9. X-coordinate	
Vocabulary	2. trial 3. outcome	10. Y-coordinate 11. quadrant	
	4. event 5. probability	12. origin 13. system of equations	
	6. theoretical probability	14. substituion	
	7. experimental probability 8. order pair	15. elimination16. Product and quotient properties	
Resources	Textbook Kuta Worksheet Builder Examview	·	
Assessment(s)	Quiz Chapter 0		
Assessment	Chapter Test		
Data:	A –		
	B —		
	C-		
	D-		
	F-		

		Geometry A	
Course Name:	Geometry A		
Unit Name: U	nit 1: Tools of Geometry		
Time Frame:	Weeks 3-4		
Unit Standards	D.1.a: Identify and model plane figures, including collinear and noncollinear points, lines, segments, rays, and angle using appropriate mathematical symbols.		
	D.1.b: Identify vertical, adjacent, corsolve equations, use in proofs).	mplementary, and supplementary angle pairs and	use them to solve problems (e.g.,
*	G.1.b: Apply the midpoint and distance formulas to points and segments to find midpoints, distances, information.		
Unit Essential Questions	 Why do we measure? Measurements provide a quantifiable way to describe real-world quantities. Why do you think the title "Tools for Geometry" represents? Tools of Geometry represents the vocabulary knowledge that is necessary to process and to have conversation throughout the remainder of the course 		
Unit Essential	1. undefined term	9. Congruent segments	17.linear pair
Vocabulary	2. point 3. line	10. distance 11. Midpoint	18.vertical angles 19.complementary angles
	4. plane 5. collinear	12. Segment bisector 13. Ray	20.suppllementary angles 21.perpendicular
	6. coplanar 7. space	14. Angle 15. Vertex	22.acute angle 23.right angle
Resources	8. line segment Textbook Kuta Worksheet Builder Examview	16. Adjacent angles	24.obtuse angle
Assessment(s)	Chapter 1 Test		
Assessment	Chapter Test		
Data:	A -		•
	В —		
	C —		
	D		
	F		

Course Name: Geometry A			
Unit Name: Ur	nit 2: Reasoning and Proof		
Time Frame:	Week 5		
Unit Standards	C.1.a: Use definitions, basic postulates, and theorems about points, segments, lines, angles, and planes to writ and to solve problems.C.1.b: Use inductive reasoning to make conjectures and deductive reasoning to arrive at valid concl		
	C.1.c: Identify and write conditional and biconditional statements along with the converse, inverse, and contrapositive of a conditional statement; use these statements to form conclusions.		
	C.1.e: Read and write different types and formats of proofs including two-column, flowchart, paragraph, a proofs.		
Unit Essential Questions	 Why is it important to be able to think logically? On a daily basis, we are presented with information and arguments from various sources such as television commercials and politicians. Many of these arguments are not valid. To analyze these arguments or to present valid arguments, we must be able to think logically and form valid conclusions. 		
Unit Essential	1. inductive reasoning	9. contrapositive	
Vocabulary	 2. conjecture 3. counter example 4. conditional statement 5. if-then statement 6. conclusion 7. converse 8. inverse 	 10. Biconditional statement 11. Deductive reasoning 12. hypothesis 13. postulate 14. theorem 15. Proof (two column and paragraph) 16. negation 	
Resources	Textbook Kuta Worksheet Builder Examview	10. Hegation	
Assessment(s)	Chapter 2 Test		
Assessment Data:	<u>Chapter Test</u> A —		
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	F		
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Geometry A			
Course Name:	Geometry A		
Unit Name: U	nit 3: Parallel and Perpendicular Lines		
Time Frame:	Weeks 6-8		
Unit Standards	C.1.d: Use various methods to prove that two lines are parallel or perpendicular (e.g., using coordinates, angle measures). D.1.f: Apply properties and theorems of parallel and perpendicular lines to solve problems.		
Unit Essential Questions	 G.1.a: Use slope to distinguish between and write equations for parallel and perpendicular lines. Why do we have undefined terms such as point and line? We have to start somewhere, so we start with a set of terms with meanings that are accepted as true. How can we use undefined terms? We can use them to define more terms. Then we can use these definitions to write postulates and theorems and to develop properties. 		
Unit Essential Vocabulary	1. parallel lines 2. parallel planes 3. skew lines 4. transversal 5. interior angles 6. exterior angles 7. consecutive interior angles 8. alternate exterior angles 9. Alternate exterior angles 10. Corresponding angles 11. slope 12. Rate of change 13. Slope-intercept form 14. Point-slope form 15. equidistant 15. equidistant		
Resources	Textbook Kuta Worksheet Builder Examview		
Assessment(s)	Chapter 3 Test		
Assessment Data:	Chapter Test A - B -		
	C — D —		
	F-		

Course Name: Geometry A			
Course Name:	Geometry A		
Unit Name: Unit 4: Congruent Triangles			
Time Frame:	Weeks 11-12		
Unit	C.1.f: Prove that two triangles are congruent by applying the SSS, SAS, ASA, AAS, and HL congruence statements.		
Standards	C.1.g: Use the principle that corresponding parts of congruent triangles are congruent to solve problems		
	D.2.a: Identify and classify triangles by their sides and angles		
	D.2.b: Identify vertical, adjacent, complementary, and supplementary angle pairs and use them to solve problems (e.g., solve equations, use in proofs)		
	D.2.c: Identify corresponding, same-side interior, same-side exterior, alternate interior, and alternate exterior angle pairs formed by a pair of parallel lines and a transversal and use these special angle pairs to solve problems (e.g., solve equations, use in proofs)		
	D.2.i: Apply the Angle Sum Theorem for triangles and polygons to find interior and exterior angle measures given the number of sides, to find the number of sides given angle measures, and to solve real-world problems		
	D.2.j: Apply the Isosceles Triangle Theorem and its converse to triangles to solve mathematical and real-world problems		
	E.1.b: Identify congruent figures and their corresponding parts.		
	G.1.c: Use coordinate geometry to solve problems about geometric figures (e.g., segments, triangles, quadrilaterals)		
Unit Essential	1. How can you compare two objects? You can compare their characteristics, such as size, color, and shape.		
Questions	2. How can you tell if two objects are congruent? You can measure all of the parts of each object and then		
	compare them.		
	3. How can you tell if two triangles are congruent? You can measure all of the sides and angles of each triangle,		
	and then compare them to see if the corresponding parts are congruent.		
Unit Essential	1. acute triangle 9. Remote interior angle		
Vocabulary	2. equilateral triangle 10. corollary		
	3. obtuse triangle 11. Vertex angle		
	4. right triangle 12. Congruent polygon 5. equilateral triangle 13. Corresponding parts		
Resources	8. exterior angle 16. Base angles Textbook		
Resources	Kuta Worksheet Builder		
	Examview		
	Examplew		
Assessment(s)	Character 4 Took		
Assessment(s)	Chapter 4 Test		
	Chapter Test		
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Course Name:	Geometry A	Ocometty A
Unit Name: U	nit 5: Relationships in Triangles	
Time Frame:	Weeks 13-14	
Unit Standards	D.2.b: Identify medians, altitudes, perpendicular bisectors, and angle bisectors of triangles and use their properties to solve problems (e.g., find points of concurrency, segment lengths, or angle measures). D.2.c: Apply the Triangle Inequality Theorem to determine if a triangle exists and the order of sides and angles.	
Unit Essential Questions	 What makes a triangle a triangle? Three sides, three angles, angle measures that sum to 180. How are the sides and angles of a triangle related? The longest side is opposite the greatest angle and the smallest side is opposite the smallest angle. 	
Unit Essential Vocabulary	 perpendicular bisector point of concurrency circumcenter incenter median centroid altitude orthocenter 	9. Indirect reasoning 10. Indirect proof 11. Proof by contradiction
Resources	Textbook Kuta Worksheet Builder Examview	
Assessment(s)	Chapter 5 Test	
Assessment Data:	Chapter Test A - B - C - D -	
	F-	

Geometry A			
Course Name: Geometry A			
Unit Name: U	Unit Name: Unit 6: Quadrilaterals		
Time Frame:	Weeks 16-17		
Unit Standards	C.1.i: Use properties of special quadrilaterals in a proof.		
	 D.2.g: dentify and classify quadrilaterals, including parallelograms, rectangles, rhombi, squares, kites, trapezoids, isosceles trapezoids, using their properties. D.2.h: dentify and classify regular and nonregular polygons (e.g., pentagons, hexagons, heptagons, octagons, no decagons, dodecagons) based on the number of sides, the angle measures, and the side lengths. 		
	D.2.i: Apply the Isosceles Triangle Theorem and	its converse to triangles to solve mathematical and real-world problems.	
	G.1.c: Use coordinate geometry to solve problems about geometric figures (e.g., segments, triangles, quadrilaterals)		
Unit Essential Questions	 Why do we name figures? By naming a figure, we know what properties to associate with that figure. The figure could then be used to model a situation and the properties of the figure could be used to solve a problem. How can the properties of quadrilaterals be used in the real world? Properties of quadrilaterals can help you calculate indirect distances, and build objects such as buildings and bridges. 		
Unit Essential	1. diagonal	9. Isosceles trapezoid	
Vocabulary	parallelogram rectangle	10. Midsegment of trapezoid 11. kite	
	4. rhombus	12. Legs of trapezoid	
	5. square 6. trapezoid	13. Base angles	
	7. bases		
	8. legs		
Resources	Textbook Kuta Worksheet Builder		
	Examview		
Assessment(s)	Chapter 6 Test		
	Chapter o rest		
Assessment	Chapter Test		
Data:	A —		
	В —		
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	D-		
	F-		

Course Name:		oned y A
Unit Name: U	nit 9: Transformations and Symmetry	
Time Frame:	Weeks 14-15	
Unit Standards	E.1.a: Determine points or lines of symmetry and apply the properties of symmetry to figures E.1.e: Identify and draw images of transformations and use their properties to solve problems G.1.e: Determine the effect of reflections, rotations, translations, and dilations and their compositions on the coordinate plane	
Unit Essential Questions	1. Why so we use mathematics to model real-world situations? To solve problems, understand	
Unit Essential Vocabulary	phenomena, look for trends. 1. line of reflection 2. translation 3. rotations 4. center of rotation 5. angle of rotation 6. reflections 7. symmetry 8. line of symmetry Textbook Kuta Worksheet Builder Examview	9. Rotational symmetry 10. Center of symmetry 11. Order of symmetry 12. dilations
Assessment(s)	Chapter 9 Test	
Assessment Data:	Chapter Test A - B - C - D -	
	F-	