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d. Norports be carced using a state of change and denomine the dago when given the squale of a line in standard form a supple-through from, the graph of a line state of values, a state distance of a line in standard form a supple-through from, the graph of a single vertex Image in the state of values in the control of the squale of a line in standard form a supple-through from, the graph of a single vertex Image in the state of values in the control of the squale of a line in standard form a supple-through form, the graph of a single vertex Image in the state of values in the control of the squale of a line in standard form a supple-through form, the graph of a single vertex Image in the state of values in the control of the state of the same of Adjuston in the control of the state of the same of Adjuston in the state of the same of																
Inc. is opticle, ar wind discription Image and metal metal wind gate of wind using a biol of winds, and photons, and gate of winds. And photons and gate of winds Image and metal m	c. Write linear equations in standard form and slope-intercept form when given two points, a point and the slope, or the graph of the equation									1						
I. Find the probability of a simple event I. definition of the Context of Increasingly Complex Mathematical and Real-World Problems In Mathematical Processes Learned in the Context of Increasingly Complex Mathematical and Real-World Problems In Mathematical Processes Learned in the Context of Increasingly Complex Mathematical and Real-World Problems In Mathematical Processes Learned in the Context of Increasingly Complex Mathematical and Real-World Problems In Mathematical Processes Learned in the Context of Increasingly Complex Mathematical and Real-World Problems In Mathematical Processes Learned In the Context of Increasingly Complex Mathematical and Real-World Problems In Mathematical Processes Learned In Mathematical Indices Context (Increasingly Complex Mathematical problems) In Mathematical Processes Learned In Mathematical Indices Context (Increasingly Complex Mathematical problems) In Mathematical Processes Learned In Mathematical Indices Context (Increasingly Complex Mathematical Indices Context) Interview Context (Increasingle Context (Increa																
B. Exploring the Skills and Strategies Underlying Mathematics Image: Context of Increasingly Complex Mathematical and Real-Word Problems Image: Context of Increasingly Complex Mathematical and Real-Word Problems Image: Context of Increasingly Complex Mathematical and Real-Word Problems Image: Context of Increasingly Complex Mathematical and Real-Word Problems Image: Context of Increasingly Complex Mathematical and Precaculus.) Image: Context of Increasingly Complex Mathematical and Precaculus.) Image: Context of Increasingly Complex Mathematical Increasingly Complex Mathematica	e. Graph a linear equation using a table of values, x- and y-intercepts, or slope-intercept form															
1. Nathematical processes Learned in the Context of Increasingly Complex Mathematical and Percebuous: Image State St	f. Find the probability of a simple event															
(Note: These mathematical processes are the same for Algoins 1, Geometry, Al																
multiple staps when needed, vertifying results in the control of the jordition (real-world problems) V	(Note: These mathematical processes are the same for Algebra I, Geometry, Algebra II, and Precalculus.)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
c. Represent data, real-world situations, and solutions in increasingly complex contexts (a.g., expressions, formulas, tables, charts, graphs, relations, functions) and understand the relationships. v <td< td=""><td>multiple steps when needed, verifying results in the context of the problem) to the solution of real-world problems</td><td></td><td></td><td></td><td>\checkmark</td><td>\checkmark</td><td>~</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td></td><td>~</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td></td<>	multiple steps when needed, verifying results in the context of the problem) to the solution of real-world problems				\checkmark	\checkmark	~	\checkmark	\checkmark	\checkmark	\checkmark		~	\checkmark	\checkmark	\checkmark
understand the relationships i <td< td=""><td>b. Use a variety of strategies to set up and solve increasingly complex problems</td><td></td><td></td><td>///\$///</td><td>$\checkmark$</td><td></td><td>$\checkmark$</td><td>$\checkmark$</td><td>$\checkmark$</td><td></td><td>$\checkmark$</td><td></td><td> ✓ </td><td>\checkmark</td><td></td><td>\checkmark</td></td<>	b. Use a variety of strategies to set up and solve increasingly complex problems			///\$///	\checkmark		\checkmark	\checkmark	\checkmark		\checkmark		 ✓ 	\checkmark		\checkmark
a. Nake appropriate use of estimation and mental mathematics in computations and to determine the reasonableness of solutions to increasingly complex problems · <td>c. Represent data, real-world situations, and solutions in increasingly complex contexts (e.g., expressions, formulas, tables, charts, graphs, relations, functions) and understand the relationships</td> <td></td> <td>\checkmark</td> <td></td> <td>\checkmark</td> <td></td> <td></td> <td>\checkmark</td> <td>\checkmark</td> <td>\checkmark</td> <td>\checkmark</td> <td></td> <td>\checkmark</td> <td>\checkmark</td> <td>\checkmark</td> <td></td>	c. Represent data, real-world situations, and solutions in increasingly complex contexts (e.g., expressions, formulas, tables, charts, graphs, relations, functions) and understand the relationships		\checkmark		\checkmark			\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	
I. Make mathematical connections among concepts, across disciplines, and in everyday experiences v <td< td=""><td>d. Use the language of mathematics to communicate increasingly complex ideas orally and in writing, using symbols and notations correctly</td><td>\checkmark</td><td>\checkmark</td><td></td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td>\checkmark</td><td></td><td>\checkmark</td><td>\checkmark</td><td></td><td>\checkmark</td></td<>	d. Use the language of mathematics to communicate increasingly complex ideas orally and in writing, using symbols and notations correctly	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark		\checkmark
g. Demonstrate the appropriate role of technology (e.g., calculators, software programs) in mathematics (e.g., organize data, develop concepts, explore relationships, decrease time spent on computations after a skill has been established) h. Apply previously learned algebraic concepts in geometric contexts C. Using Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof to Reason Mathematically L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof L. Logic and Proof to Reason Mathematically L. Logic and Proof to Reason Mathemat	e. Make appropriate use of estimation and mental mathematics in computations and to determine the reasonableness of solutions to increasingly complex problems		\checkmark			\checkmark		\checkmark						\checkmark		
$\frac{1}{1} + \frac{1}{1} + \frac{1}$	f. Make mathematical connections among concepts, across disciplines, and in everyday experiences	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		 ✓ 	\checkmark	\checkmark	\checkmark
C. Using Logic and Proof to Reason MathematicallyImage: Constraint of the season mathematical constraint constraint of th			\checkmark			\checkmark		\checkmark		~			~			\checkmark
C. Using Logic and Proof to Reason MathematicallyImage: Constraint of the season mathematical constraint constraint of th	h. Apply previously learned algebraic concepts in geometric contexts		\checkmark	////	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark				\checkmark		\checkmark
a. Use definitions, basic postulates, and theorems about points, segments, lines, angles, and planes to write proofs and to solve problems \checkmark <t< td=""><td>C. Using Logic and Proof to Reason Mathematically</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	C. Using Logic and Proof to Reason Mathematically															
Use inductive reasoning to make conjectures and deductive reasoning to arrive at valid conclusions ✓ <	1. Logic and Proof															
Use inductive reasoning to make conjectures and deductive reasoning to arrive at valid conclusions ✓ <	a. Use definitions, basic postulates, and theorems about points, segments, lines, angles, and planes to write proofs and to solve problems	\checkmark			\checkmark		\checkmark	\checkmark			\checkmark	///s///				
conclusionsconclusion	b. Use inductive reasoning to make conjectures and deductive reasoning to arrive at valid conclusions	\checkmark			\checkmark		\checkmark	\checkmark			\checkmark			\checkmark		\checkmark
d. Use various methods to prove that two lines are parallel or perpendicular (e.g., using coordinates, angle measures) i	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						\checkmark	\checkmark								
e. Read and write different types and formats of proofs including two-column, flowchart, paragraph, and indirect proofs f. Prove that two triangles are congruent by applying the SSS, SAS, ASA, AAS, and HL congruence statements g. Use the principle that corresponding parts of congruent triangles are congruent to solve problems h. Use several methods, including AA, SAS, and SSS, to prove that two triangles are similar, corresponding sides are proportional, and corresponding angles are congruent	d. Use various methods to prove that two lines are parallel or perpendicular (e.g., using coordinates, angle measures)		\checkmark		\checkmark		✓	\checkmark				///s///				
f. Prove that two triangles are congruent by applying the SSS, SAS, ASA, AAS, and HL congruence statements Image: Congruent triangles are congruent triangles are congruent to solve problems Image: Congruent triangles are congruent triangles are congruent to solve problems Image: Congruent triangles are congruent triangles are similar, corresponding angles are proportional, and corresponding angles are proportional, and corresponding angles are congruent triangles are similar, corresponding angles are proportional, and corresponding angles are Image: Congruent triangles are congruent triangles are similar, corresponding angles are proportional, and corresponding angles are Image: Congruent triangles are congruent triangles are similar, corresponding angles are Image: Congruent triangles are congruent triangles are similar, corresponding angles are Image: Congruent triangles are congruent triangles are similar, corresponding angles are Image: Congruent triangles	e. Read and write different types and formats of proofs including two-column, flowchart, paragraph, and indirect proofs			(//\$////	\checkmark		\checkmark	\checkmark			\checkmark					
h. Use several methods, including AA, SAS, and SSS, to prove that two triangles are similar, corresponding sides are proportional, and corresponding angles are congruent	f. Prove that two triangles are congruent by applying the SSS, SAS, ASA, AAS, and HL congruence statements						\checkmark	\checkmark						\checkmark		
congruent	g. Use the principle that corresponding parts of congruent triangles are congruent to solve problems						\checkmark	\checkmark						\checkmark		
											\checkmark			\checkmark		
	i. Use properties of special quadrilaterals in a proof							\checkmark								

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p = Primary Course Standards (those that represent the central focus of the unit)
 s = Secondary Course Standards (those that are less important to the focus of the unit)

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	11-34-4	11-:40	11-10	11-14	11-11-7		11-11-7	11-11-0	11-11-0	11-3440	11-36.4.4	11-11-10	11-1-40	11-3444	11-34.45
	Unit 1 (11 days)	Unit 2 (6 days)	Unit 3 (10 days)	Unit 4 (10 days)	Unit 5 (8 days)	Unit 6 (7 days)	Unit 7 (10 days)	Unit 8 (10 days)	Unit 9 (8 days)	Unit 10 (10 days)	Unit 11 (6 days)	Unit 12 (5 days)	Unit 13 (9 days)	Unit 14 (8 days)	Unit 15 (6 days)
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	Foundations of Geometry: There Is No Royal Road to Geometry	e Geometry	Shadow of a Doubt: Proof	What's So Special About Angle Pairs?	Triangles: Segments and Angles and Sides, Oh My!	Congruent Triangles: Shortcuts	What's Your Angle on Polygons and Quadrilaterals?	meter, and Geometric	Around the Outside and in the Inside: Lateral Area, Surface Area, Volume		Right About Right	stry	rcles		Change: Transformations and on the Coordinate
	oundatio No Roy	Coordinate	Beyond a { Logic and I	'hať's So airs?	iangles: nd Sides	ongruent	lat's You d Quadri	Area, Perimeter, a Probability	ound the ide: Late lume	Similarity	What's So F Triangles?	Trigonometry	Going in Circles	Constructions	Creating Ch in Space ar Plane
ACT Course Standards—Geometry	ନ ୧	ŏ	В В	≥g	Tr an	ŏ	Wh and	Ar Pr	Arc Ins Vol	Si	≥⊤	Tr	Go	Col	Cre in S Pla
D. Identifying, Classifying, and Applying the Properties of Geometric Figures in Space															
1. Points, Lines, Planes, and Space											~~~~				
a. Identify and model plane figures, including collinear and noncollinear points, lines, segments, rays, and angles using appropriate mathematical symbols	\checkmark					\checkmark	\checkmark				///\$///		\checkmark		
b. Identify vertical, adjacent, complementary, and supplementary angle pairs and use them to solve problems (e.g., solve equations, use in proofs)	\checkmark			\checkmark		\checkmark	\checkmark								
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)				\checkmark		\checkmark	\checkmark								
d. Use construction techniques, including straightedge and compass, to bisect and trisect segments and to create parallel and perpendicular lines, perpendicular bisectors, and angle bisectors														\checkmark	
e. Locate, describe, and draw a locus in a plane or space														\checkmark	
f. Apply properties and theorems of parallel and perpendicular lines to solve problems				\checkmark		\checkmark	\checkmark								
2. Polygons															
a. Identify and classify triangles by their sides and angles					\checkmark	\checkmark					///\$///				
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)					~	\checkmark									
c. Apply the Triangle Inequality Theorem to determine if a triangle exists and the order of sides and angles					\checkmark										
d. Solve problems involving the relationships formed when the altitude to the hypotenuse of a right triangle is drawn		\checkmark													
e. Apply the Pythagorean Theorem and its converse to triangles to solve mathematical and real-world problems (e.g., shadows and poles, ladders)															
f. Identify and use Pythagorean triples in right triangles to find lengths of the unknown side											///////////////////////////////////////				
g. Identify and classify quadrilaterals, including parallelograms, rectangles, rhombi, squares, kites, trapezoids, and isosceles trapezoids, using their properties							\checkmark				///s///				
h. Identify and classify regular and nonregular polygons (e.g., pentagons, hexagons, heptagons, octagons, nonagons, decagons, dodecagons) based on the number of sides, the angle measures, and the side lengths							\checkmark								
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					\checkmark		~						\checkmark		
j. Apply the Isosceles Triangle Theorem and its converse to triangles to solve mathematical and real-world problems					\checkmark						///\$///				
3. Circles															
a. Identify and define line segments associated with circles (e.g., radii, diameters, chords, secants, tangents)													\checkmark		
b. Determine the measure of central and inscribed angles and their intercepted arcs													\checkmark		
c. Find segment lengths, angle measures, and intercepted arc measures formed by chords, secants, and tangents intersecting inside and outside circles													\checkmark		
d. Solve problems using inscribed and circumscribed polygons													\checkmark		
4. Solids															
a. Identify and classify prisms, pyramids, cylinders, cones, and spheres and use their properties to solve problems				1					✓		1				
b. Describe and draw cross sections of prisms, cylinders, pyramids, and cones									\checkmark						

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	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10	Unit 11	Unit 12	Unit 13	Unit 14	Unit 15
	(11 days)	(6 days)	(10 days)	(10 days)	(8 days)	(7 days)	(10 days)	(10 days)		(10 days)	(6 days)	(5 days)	(9 days)	(8 days)	(6 days)
ACT Course Standards—Geometry	Foundations of Geometry: There Is No Royal Road to Geometry	Coordinate Geometry	Beyond a Shadow of a Doubt: Logic and Proof	What's So Special About Angle Pairs?	Triangles: Segments and Angles and Sides, Oh My!	Congruent Triangles: Shortcuts	What's Your Angle on Polygons and Quadrilaterals?	Area, Perimeter, and Geometric Probability	Around the Outside and in the Inside: Lateral Area, Surface Area, Volume	Similarity	What's So Right About Right Triangles?	Trigonometry	Going in Circles	Constructions	Creating Change: Transformations in Space and on the Coordinate Plane
E. Comparing Congruent and Similar Geometric Figures															
1. Similarity and Congruence															
a. Determine points or lines of symmetry and apply the properties of symmetry to figures							\checkmark								\checkmark
b. Identify congruent figures and their corresponding parts						\checkmark							\checkmark		\checkmark
c. Identify similar figures and use ratios and proportions to solve mathematical and real-world problems (e.g., finding the height of a tree using the shadow of the tree and the height and shadow of a person)										\checkmark			\checkmark		
d. Use the definition of similarity to establish the congruence of angles, proportionality of sides, and scale factor of two similar polygons										\checkmark			\checkmark		
e. Identify and draw images of transformations and use their properties to solve problems															\checkmark
f. Apply relationships between perimeters of similar figures, areas of similar figures, and volumes of similar figures, in terms of scale factor, to solve mathematical and real-world problems								\checkmark	\checkmark	\checkmark					\checkmark
g. Determine the geometric mean between two numbers and use it to solve problems (e.g., find the lengths of segments in right triangles)											////				
h. Identify and give properties of congruent or similar solids										\checkmark					
F. Using Length, Area, Perimeter, and Volume to Find Quantities and Solve Problems															
1. Area and Perimeter															
a. Find the perimeter and area of common plane figures, including triangles, quadrilaterals, regular polygons, and irregular figures, from given information using appropriate units of measurement								\checkmark					~		
b. Manipulate perimeter and area formulas to solve problems (e.g., finding missing lengths)								\checkmark							
c. Use area to solve problems involving geometric probability								\checkmark							
d. Find arc lengths and circumferences of circles from given information (e.g., radius, diameter, coordinates)								\checkmark					\checkmark		
e. Find the area of a circle and the area of a sector of a circle from given information (e.g., radius, diameter, coordinates)								\checkmark					\checkmark		
2. Lateral Area, Surface Area, and Volume															
a. Find the lateral area, surface area, and volume of prisms, cylinders, cones, and pyramids in mathematical and real-world settings									\checkmark						
b. Use cross sections of prisms, cylinders, pyramids, and cones to solve volume problems									\checkmark						
c. Find the surface area and volume of a sphere in mathematical and real-world settings									\checkmark						

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	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9	Unit 10		Unit 12	Unit 13	Unit 14	Unit 15
	(11 days)	(6 days)	(10 days)	(10 days)	(8 days)	(7 days)	(10 days)	(10 days)	(8 days)	(10 days)	(6 days)	(5 days)	(9 days)	(8 days)	(6 days)
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G. Relating Geometric Ideas to the Coordinate Plane							> @		4 = >				0	0	О.= Ш
1. Coordinate Geometry															
a. Use slope to distinguish between and write equations for parallel and perpendicular lines		~		√			\checkmark								
b. Apply the midpoint and distance formulas to points and segments to find midpoints, distances, and missing information		\checkmark					\checkmark				//s///		\checkmark		
c. Use coordinate geometry to solve problems about geometric figures (e.g., segments, triangles, quadrilaterals)		\checkmark				\checkmark	\checkmark				///s///		\checkmark		
d. Write equations for circles in standard form and solve problems using equations and graphs													\checkmark		
e. Determine the effect of reflections, rotations, translations, and dilations and their compositions on the coordinate plane															\checkmark
H. Investigating and Applying Basic Ideas of Trigonometry															
1. Introduction to Trigonometry	-														
a. Apply properties of 45°-45°-90° and 30°-60°-90° triangles to determine lengths of sides of triangles												\checkmark			
b. Find the sine, cosine, and tangent ratios of acute angles given the side lengths of right triangles												\checkmark			
c. Use trigonometric ratios to find the sides or angles of right triangles and to solve real-world problems (e.g., use angles of elevation and depression to find missing measures)												\checkmark			

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