Denison Geometry Pacing Guide

	Description	Section	Title	Suggested Days for Unit
Chapter 1: Algebra Bootcamp	*In this chapter, students will review (or relearn) some of the algebra 1 skills needed for geometry.*	**1-1**	How to Learn Geometry	9-10 Days
		1-2	Geometry Intro	
		1-3	Adding and Subtracting Integers	
		1-4	Variables & Substitution	
		1-5	Solving 2-Step Equations	
		1-6	Solving Equations with Variables on Both Sides	
		1-7	Simplifying Polynomials- Add & Subtract	
		1-8	Review of Chapter 1	
		Test A	Chapter 1 Test Form A	
		Test B	Chapter 1 Test Form B (if needed)	
Chapter 2: Geometry Basics	*In this chapter, students will begin with learning some of the basic tools of geometry, including points, lines, and angles, as well as how to label things correctly.*	**2-1**	Points and Segments	11-12 Days
		2-2	Segment Addition Postulate	
		2-3	Midpoints and Drawing a Diagram	
		2-4	Solving Equations (With Negatives)	
		2-5	Angles	
		2-6	Angle Bisectors and Perpendicular Lines	
		2-7	Complementary and Supplementary Angles	
		2-8	Veritcal Angles	
		2-9	Practice with Diagrams	
		2-10	Review of Chapter 2	
		Test A	Chapter 2 Test Form A	
		Test B	Chapter 2 Test Form B (if needed)	
Chapter 3: Transversals	*In this chapter, students will look at some of the rules and properties associated with lines that cross each other.*	**3-1**	Transversals (Corresponding and Vertical Angles)	7-8 Days
		3-2	Transversals (Interior Angles)	
		3-3	Transversals (Exterior Angles)	
		3-4	Transversals and Algebra	
		3-5	Transversals Found in Shapes	
		3-6	Review of Chapter 3	
		Test A	Chapter 3 Test Form A	
		Test B	Chapter 3 Test Form B (if needed)	

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	Description	Section	Title	Suggested Days for Unit
Chapter 4: Triangles	*In this chapter, students will begin exploring the triangle and will look at how to identify when triangles are equal to each other and what that means.*	**4-1**	Classifying Triangles	9-10 Days
		4-2	Angles of Triangles	
		4-3	Angles, Algebra, & Complex Pictures	
		4-4	Isosceles and Equilateral Triangles	
		4-5	Congruent Triangles	
		4-6	"SSS Postulate" and "SAS Postulate"	
		4-7	"ASA Postulate" and "AAS Postulate"	
		4-8	Review of Chapter 4	
		Test A	Chapter 4 Test Form A	
		Test B	Chapter 4 Test Form B (if needed)	
Chapter 5: Relationships in Triangles	*In this chapter, students will continue exploring the triangle, looking at the rules and properties associated with lines that can be drawn inside triangles.*	**5-1**	Comparing Measurements in Triangles	8-9 Days
		5-2	Perpendicular Bisectors and Circumcenter	
		5-3	Angle Bisectors and Incenter	
		5-4	Medians and Centroids	
		5-5	Altitudes and Orthocenter	
		5-6	Patterns and the Euler Line	
		5-7	Review of Chapter 5	
		Test A	Chapter 5 Test Form A	
		Test B	Chapter 5 Test Form B (if needed)	
Chapter 6: Similar Triangles	*In this chapter, students will explore how two different sized triangles can be "similar" which means one is larger or smaller proportionally.*	**6-1**	Ratios and Unit Rates	8-9 Days
		6-2	Proportions	
		6-3	Similar Triangles and Proportions	
		6-4	Scale Factor and "Are They Similar?"	
		6-5	Extended Ratios in Triangles	
		6-6	Parallel Lines in Triangles and Transversals	
		6-7	Review of Chapter 6	
		Test A	Chapter 6 Test Form A	
		Test B	Chapter 6 Test Form B (if needed)	

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	Description	Section	Title	Suggested Days for Unit
Chapter 7: Right Triangles	*In this chapter, students will learn the rules and properties associated with right triangles, in which we are introduced to a branch of mathematics called "Trigonometry."*	**7-1**	Radical Skills (Part 1): Calculator	14-15 Days
		7-2	Radical Skills (Part 2): Simplifying	
		7-3	Radical Skills (Part 3): Rationalizing	
		7-4	Pythagorean Theorem (Part 1: Decimal Answers)	
		7-5	Pythagorean Theorem (Part 2: Radical Answers)	
		7-6	Using the Pythagorean Theorem	
		7-7	Special Right Triangles (45-45-90)	
		7-8	Special Right Triangles (30-60-90)	
		7-9	Trigonometry (Part 1)	
		7-10	Trigonometry (Part 2)	
		7-11	Trigonometry (Part 3)	
		7-12	Trigonometry (Part 4)	
		7-13	Review of Chapter 7	
		Test A	Chapter 7 Test Form A	
		Test B	Chapter 7 Test Form B (if needed)	
Chapter 8: Quadrilaterals	*In this chapter, students will explore the rules and properties associated with four-sided shapes, such as rectangles, squares, parallelograms, kites, and others.*	**8-1**	Polygons and Angles	7-8 Days
		8-2	Parallelograms	
		8-3	Rectangles	
		8-4	Rhombi and Squares	
		8-5	Trapezoids and Kites	
		8-6	Review of Chapter 8	
		Test A	Chapter 8 Test Form A	
		Test B	Chapter 8 Test Form B (if needed)	
Chapter 9: Circles	*In this chapter, students will explore the rules and properties associated with circles, such as pi, area, circumference, and how lines interact with circles.*	**9-1**	Intro to Circles	12-13 Days
		9-2	Pi, Circumference, and Area	
		9-3	Working Backwards	
		9-4	Using Multiple Formulas	
		9-5	Central Angles & Arc Measures	
		9-6	Arc Length	
		9-7	Chords and Arcs	
		9-8	Inscribed Angles	
		9-9	Tangents	
		9-10	Intersecting Lines and Circles	
		9-11	Review of Chapter 9	
		Test A	Chapter 9 Test Form A	
		Test B	Chapter 9 Test Form B (if needed)	

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	Description	Section	Title	Suggested Days for Unit
Chapter 10: Area	*In this chapter, students will learn how to find the area (or the "floor space") of all of the shapes we have studied so far in this course.*	**10-1**	Area of Rectangles and Parallelograms	5 Days
		10-2	Area of Triangles and Trapezoids	
		10-3	Area of Rhombi and Other Polygons	
		10-4	Area of Unusual Shapes	
		10-5	Review of Chapter 10	
		No Test	There is no test for this chapter	
Chapter 11: Surface Area and Volume	*In this chapter, students will be introduced to 3-dimensional shapes and learn how to find the area and volume (how much space is inside) of these shapes.*	**11-1**	Surface Areas of Rectangular Prisms	8-9 Days
		11-2	Surface Area of Triangular Prisms and Cylinders	
		11-3	Surface Area of Pyramids and Cones	
		11-4	Volumes of Prisms and Cylinders	
		11-5	Volumes of Pyramids and Cones	
		11-6	Surface Area and Volumes of Spheres	
		11-7	Review of Chapter 11	
		Test A	Chapter 11 Test Form A	
		Test B	Chapter 11 Test Form B (if needed)	
Chapter 12: Coordinate Geometry	*In this chapter, students will take all of the shapes studied so far in this course and place them on a coordinate plane (a graph) then apply rules of algebra to solve problems.*	**12-1**	The Coordinate Plane	10-11 Days
		12-2	Distance (or Length)	
		12-3	Midpoint	
		12-4	Slope	
		12-5	Parallel and Perpendicular Lines	
		12-6	Triangles on the Coordinate Plane	
		12-7	Quadrilaterals on the Coordinate Plane	
		12-8	Transversals on the Coordinate Plane	
		12-9	Review of Chapter 12	
		Test A	Chapter 12 Test Form A	
		Test B	Chapter 12 Test Form B (if needed)	

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	Description	Section	Title	Suggested Days for Unit
Chapter 13: Graphing and Equations of Lines	*In this chapter, students will look at how equations interact with shapes on a coordinate plane. In particular, we will look at the equations of lines and circles.*	**13-1**	Equations of Lines	7-8 Days
		13-2	Graphing Lines	
		13-3	Writing Equations from a Graph	
		13-4	Writing Equations from Other Information	
		13-5	Writing Equations of Parallel and Perpendicular Lines	
		13-6	Equations of Circles	
		13-7	Review of Chapter 13	
		Test A	Chapter 13 Test Form A	
		Test B	Chapter 13 Test Form B (if needed)	
Chapter 14: Transformations	*In this chapter, students will study the four main types of transformations: translations, reflections, rotations, and dilations.*	**14-1**	Intro to Transformations and Translations	9-10 Days
		14-2	Vectors and Translations	
		14-3	Reflections	
		14-4	Rotations	
		14-5	Dilations	
		14-6	Composition of Transformations	
		14-7	Symmetry	
		14-8	Review of Chapter 14	
		Test A	Chapter 14 Test Form A	
		Test B	Chapter 14 Test Form B (if needed)	
Final Exam				
		Review	Practice test for the final exam	2 Days
		Exam	Final Exam	
			Total Days 132 (Approximately)	