GEOMETRY SYLLABUS – 1st Semester

Please refer to this syllabus with any questions you may have. We will work through the text book pages in class. We will do all problems in a module, unless I tell you to do less because of the time remaining. Your text book is always available to you online. Just sign on to the **DentonISD SSO** and click on **BIG IDEAS LEARNING**. This will have interactive practice, videos, tutorials, and assessments for you. Please use it! In class I will be going over the Units and Modules on the backside of this paper. Please use the bottom half of this paper for notes and Big Ideas.

If you are absent, please look at the week and see what module you missed. You can watch lessons and videos on the books website. Let me know if you need more help with the content.

In this class you will be given two types of grades: major summative (60%) and minor summative (40%). There will be at least 1 minor per module and at least 1 major per unit. If you are not successful, you may relearn the material and reassess as time permits. Please ask for a *Request to Reassess* document to be eligible for reassessment.

Vocabulary – Please visit the vocabulary sets at http:// quizlet.com/Mr_Havens. You record these vocab words in your vocab booklet or on a Google doc. If you choose to do the Google doc, please share it with me (rhavens@g.dentonisd.org).

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Week 1	Section	Name	Page		Problems	CHECK
WEEK 1 — Unit 1 Basics of Geometry	1.1	Points, Lines, and Planes	p.	8	3-24, 27-38, 50, 55	
	1.2	Measuring	p.	16	3-32, 35, 39, 42	
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WEEK 2 — Unit 1 Basics of Geometry	1.3	Using Midpoint Formulas	p.	24	3-30	
	Quiz		p.	28	1-25	
	1.4	Perimeter and Area in the Coordinate Plane	p.	34	3-24, 27-30	
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WEEK 3 — Unit 1 Basics of Geometry	1.5	Measuring and Constructing Angles	p.	43	3-46	
	1.6	Describing Pairs of Angles	p.	52	3-41	
	Review		p.	56	1-34	
	Assess		p.			
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WEEK 4 — Unit 2 Reasoning and Proof	2.1	Conditional Statements	p.	71	3-36	
	2.2	Inductive and Deductive Reasoning	p.	80	3-34, 37-40	
	Quiz		p.	90	1-7	
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	2.4	Algebraic Reasoning	p.	96	3-24 ODDS, 25-40 ALL, 45, 46	
WEEK 5 — Unit 2 Reasoning and Proof	2.5	Proving Statements about Segments and Angles	p.	103	4-13, 16, 21	
	2.6	Proving Geometric Relationships	p.	111	3-14	
	Review		p.	116	1,-8, 16-25	
	Assess		p.			
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WEEK 6 — Unit 3 Parallel and Perpendicular Lines	3.1	Pairs of Lines and Angles	p.	129	3-18, 21	
	3.2	Parallel Lines and Transversals	p.	135	3-13,17-23	
	3.3	Proofs with Parallel Lines	p.	142	3-8, 13-18, 23-28, 30	
	Quiz		p.	146	1-16	
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WEEK 7 — Unit 3 Parallel and Perpendicular Lines	3.4	Proofs with Perpendicular Lines	p.	152	3-10, 17-27, 31	
	3.5	Slopes of Lines	p.	159	3-20, 24, 25, 28	
	3.6	Equations of Parallel and Perpendicular Lines	p.	165	3-14, 16-18, 23, 26	
	Review		p.	168	1-26	
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WEEK 8 — Unit 4 Transformations	4.1	Translations	p.	182	3-24, 26-30	
	4.2	Reflections	p.	190	3-24, 27	
	4.3	Rotations	p.	198	3-10, 17-24	
	Quiz		p.	202		

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Week 9	Unit 4 Transformations	4.4	Congruence and Transformations	p. 208	3-16, 25-28	
		4.5	Dilations	p. 216	3-10, 15-22, 29, 30	
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		4.6	Similarity and Transformations	p. 223	3-21 ODDS ONLY	
Week 10	Unit 5 Congruent Triangles	Assess		p.		
		5.1	Angles of Triangles	p. 240	3-37	
		5.2	Congruent Polygons	p. 247	3-14	
		5.3	Proving Triangle Congruence by SAS	p. 253	3-24	
		5.4	Equilateral and Isosceles Triangles	p. 261	3-30	
Week 11	Unit 5 Congruent Triangles	Assess		p. 264	1-16	
		5.5	Proving Triangle Congruence by SSS	p. 270	3-18, 22, 25	
		5.6	Proving Triangle Congruence by ASA and AAS	p. 278	3-14, 25, 26	
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Week 12	Unit 5 Congruent Triangles	5.7	Using Congruent Triangles	p. 285	3-14	
		5.8	Coordinate Proofs	p. 291	3-16	
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WEEK 14	Unit 6 Relationships within Triangles	6.1	Perpendicular and Angle Bisectors	p. 310	3-27	
		6.2	Bisectors of Triangles	p. 319	3-24	
		6.3	Medians and Altitudes of Triangles	p. 328	3-26, 31-36, 39	
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WEEK 15	Unit 6 Relationships within Triangles	6.4	The Triangle Midsegment Theorem	p. 337	3-19, 21	
		6.5	Indirect Proof and Inequalities in One Triangle	p. 344	3-24	
		6.6	Inequalities in Two Triangles	p. 351	3-14	
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	7.2	Properties of Parallelograms	p.	376	3-20, 27, 33-36	
	7.3	Proving That a Quadrilateral Is a Parallelogram	p.	385	3-20, 33, 34	
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WEEK 18 / Unit 7: Quadrilaterals and Other Polygons	7.4	Properties of Special Parallelograms	p.	397	3-34, 37-42, 65-70	
	7.5	Properties of Trapezoids and Kites	p.	407	3-18, 21-34	
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WEEK 20 / Unit 8: Similarity	8.1	Similar Polygons	p.	427	3-22, 28-35	
	8.2	Proving Triangle Similarity by AA	p.	435	3-18, 21, 23-26	
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	8.3	Proving Triangle Similarity by SSS and SAS	p.	445	3-18, 21-26	
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WEEK 21 / Unit 8: Similarity	8.4	Proportionality Theorems	p.	454	3-22, 29, 30	
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WEEK 22 / Unit 9: Right Triangles and Trig	9.1	The Pythagorean Theorem	p.	472	3-10, 13-34	
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WEEK 23 / Unit 9: Right Triangles and Trig	9.4	The Tangent Ratio	p.	495	3-10, 13-21	
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WEEK 25 / Unit 10: Circles	10.1	Lines and Segments That Intersect Circles	p.	538	5-32, 39, 40	
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	10.3	Using Chords	p.	553	3-17	
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WEEK 26 / Unit 10: Circles	10.4	Inscribed Angles and Polygons	p.	562	3-16, 18-32	
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		10.6	Segment Relationships in Circles	p. 577	3-17	
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		11.1	Circumference and Arc Length	p. 602	3-10, 13-26	
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WEEK 29	Unit 11: Circumference and Area	11.3	Areas of Polygons and Composite Figures	p. 620	3-24, 27-30	
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