Algebraically Speaking... McDougal Littell – Geometry Fall Semester

Homework Assignments:

For all sections assigned, first read through teaching section & examples carefully, then work assigned problems.

<u>Chapter 1 - Essentials of Geometry:</u>	
Lesson 1.1 - Identify Points, Lines, c Read through the teaching section a use a pencil and sheet of paper to re with them as you read through the begin to look at what different inter	and Planes & examples. As you look at these concepts, you can epresent a line and a plane, accordingly. Play around examples. This is a helpful technique to use as you resections might look like.
Problems: #	1(a-d), 3-6 all, 8-11 all, 13, 14, #16-22 all, 25, 26, 27-37 odd, 40-42 all, 46
Lesson 1.2 - Use Segments and Cong	gruence
Problems: #	1, 7-13 odd, 17-29 odd, 33
Lesson 1.3 - Use Midpoint and Dista	nce Formulas
Problems:	#1, 3-21 odd, 24, 25-33 odd, #34, 35-41 odd #43, 45, 46, 47, 48, 52, 53
Lesson 1.4 - Measure and Classify A	nales
Problems:	#3, 5, 6, 7-14 all, 15-21 all, 22, 24, # 25-28 all, 29, 31, 33-38 all, 40, 42, # 44, 47, 51, 53-61 all
Do 1.4 - Construction, page	33-34
Lesson 1.5 - Describe Anale Pair Rel	ationships
Problems:	# 3, 5, 6, 7-15 odd, 16, 17-27 odd, 30, 31, 33, 39, 41, 43, 49-52 all, 54
Lesson 1.6 - Classify Polygons	
Problems: #	3-13all, 15, 16, 18-29all, 33-37odd, 40, 41
Lesson 1.7 - Find Perimeter, Circum Problems: #	ference, and Area 4, 6-9all, 13, 16, 18, 19-25odd, 26, 27-31odd, 35, 40, #43_46
Chapter 1 Summary and Review	,

Problems: ALL

Chapter 2 - Reasoning and Proof:

Lesson 2.1 - Use Inductive Reasoning
Problems: # 3-4 (do in your head, no need to sketch), # 5 – 17 all, 20, 21, #23 – 29 odd, 30 # 32 – 37 all
Lesson 2.2 - Analyze Conditional Statements
Problems: # 3 – 5 all, # 7 – 15 all, 16, 18, #19 – 24 all # 26 – 28 all, 33, 35, 36, 39
Lesson 2.3 - Apply Deductive Reasoning
Problems: # 4 – 10 all, 12, 13, #16 – 19 all, 21, 22, 24 # 25 – 28 all
Lesson 2.4 - Use Postulates and Diagrams
Problems: # 3 – 8 all, # 10 – 24 all, # 35 – 38 all, 39
Lesson 2.5 - Reason Using Properties from Algebra
Problems: $\# 1 - 19$ Odd,
21 – 25 All, 29, 30, 33
Lesson 2.6 - Prove Statements about Segments and Angles
Problems: # 3 – 12 All, 16, 17, 18, 21,
23, 24, 26, 29
Lesson 2.7 – Prove Angle Pair Relationships
Problems: # 3 – 6 All, #8 – 14 Odd, 16
17 – 33 Odd
37, 39, 42, 46
Chapter 2 Summary and Review
Problems: ALL

Chapter 3 - Parallel and Perpendicular Lines

Lesson 3.1 - Identify Pairs of Lines of	and Angles	
Work problems:	# 3, 5, 7 - 14, all,	
	# 18 - 27 all, 29 - 32 all,	
	# 37, 40 - 42 all	
Lesson 3.2 - Use Parallel Lines and Transversals		
Work problems:	# 5 – 19 Odd, 22, 24,	
	#27 – 33 All, 35, 37, 42	
Lesson 3.3 - Prove Lines are Parallel		
Work Problems: # 3.	# 5 – 8 all, # 10 – 15 all, 17,	
	# 19 – 21, 29, 31, 35, 36, 38, # 40 – 44 Odd	
Lesson 3.4 - Find and Use Slopes of	lines	
Work Problems: # 3	-6 All 7 9 13 15 16 17 20	
#	23 25 27 28 30 32 33 36 40	
	23, 23, 27, 20, 30, 32, 33, 30, 40	
Lesson 3.5 - Write and Graph Fauat	ions of Lines	
Work Problems: #3 7 Odd 11 21 Odd 23 28 Odd		
# 5 WORK 1 1001ems. # 5	$30 - 44 \text{ Odd} \ 46 \ 48 \ 49 \ 51$	
" #	53 55 57 60 62 63	
π	55, 55, 57, 60, 62, 65	
Lesson 3.6 - Prove Theorems about 1	Dennandicular Lines	
Work Problems: #2	$4 \times 11 \times 5 \times 7 \times 11 \times 10 \times 11$	
work riddleffis. $\# 2$	= 4 An, 5 = 7 An, 6 = 10 An, = 16 10 23 25 26 20 31 33	
	π 10, 17, 23, 23, 20, 27, 31, 33	
Chapter 3 Summary and Daview		
Chapter 5 Summary and Review		
Prodiems: A		

Chapter 4 - Congruent Triangles

_____ Lesson 4.1 - Apply Triangle Sum Properties Problems: # 1 – 6 all,, 11, # 14 – 19 all, # 21 – 28 all, 31, # 32 – 37 all, 41, 52

Lesson 4.2 - Apply Congruence and Triangles Problems: #4 – 13 all, , 16, #19 – 21 all, , 23, 25, 26, 28

- Lesson 4.3 Prove Triangles Congruent by SSS Problems: #1 – 7 all, 9, 11, #16 – 18 all, 21, 24, 26
- Lesson 4.4 Prove Triangles Congruent by SAS and HL Problems: # 3 – 8 all, # 10, 11, 12, 14, 15, 17, 18, 19, 21, 22 # 25, 28, 29, 31, 33, 34, 36, 38, 39
- Lesson 4.5 Prove Triangles Congruent by ASA and AAS Problems: # 3 – 5, 7, 8, #11 – 13, 15, 17, 19, 20, 24, 27, 31, 32
- Lesson 4.6 Use Congruent Triangles Problems: #4, 7, 8, 11, 13, 14, 16, 18, 19, 20, 21, 23, 28, 31, # 33 – 35, 39
 Lesson 4.7 - Use Isosceles and Equilateral Triangles Problems: # 3-9 all, #11-13, #15-22, 25, 27, 29, 32, 34, 39, 40 # 42, 43, 47, 48 # 33 – 35, 39
 Lesson 4.8 - Perform Congruence Transformations

Problems: # 3-8, 9, 10, 13, 15, 18, 21, 23, 26, 28, 29, 31, # 33-36, 38, 39, 42, 43

____ Chapter 4 Summary and Review

Problems: ALL

<u>Chapter 5 - Relationships within Triangles:</u>

Lesson 5.1 - Midsegment Theorem and Coordinate Proof
Problems: $\# 3, 5, \# 6 - 11$ All,
#12, 16, 13, 15, 19, 21, 23, 24, 28
29, 30, 31, 32, 35, 38, 40,
Lesson 5.2 - Use Perpendicular Bisectors
Problems: $\# 3 - 9 \text{ All},$
#11 – 17 All,
20 – 22 All,
26, 33
Lesson 5.3 - Use Angle Bisectors of Triangles
Problems: $\# 3 - 13$ All,
` # 15 − 20 All,
23, 25, 26, 29, 32,
Lesson 5.4 - Use Medians and Altitudes
Problems: # 3-6 all, 7, 8, 9, 11, #13-15 all, 17, 19, 20, 21, 23,
24, 25, 31, 33, 35, 36, 41, 42
Practice your "MAPA-CICO" ©
Lesson 5.5 – Use Inequalities in a Triangle
Problems: # 6-11 all, # 16-19 all, # 21, 23, 25
Lesson 5.6 - Inequalities in Two Triangles and Indirect Proof
Problems: # 3-8 all
Practice your "MAPA-CICO" 😊
Chapter 5 Summary and Review
Problems: All

Chapter 6 - Similarity:

- _____ Lesson 6.1 Ratios, Proportions, and the Geometric Mean Problems: # 3 – 9 Odd, 11, 15, 17, 18, 22, 23, 27, 28, # 30, 31, 35, 40, 43, 45, 46, 49, 51, 52, # 53, 55, 57, 59, 65, 68
- Lesson 6.2 Use Proportions to Solve Geometry Problems Problems: # 6, 7, 9, 11, 13, 16, 18, 22, 26, 28, 30
- Lesson 6.3 Use Similar Polygons Problems: # 5, 6, 7, 9 – 11, 12, 14 – 17, 19, 23 – 26, 32, 34
- Lesson 6.4 Prove Triangles Similar by AA Problems: # 3 – 14 All, 20, 21, 23, 25, 27, 29, 31, 34
- Lesson 6.5 Prove Triangles Similar by SSS and SAS Problems: # 3, 5, 7, 9, 10, 11, 14, 15, 18-23, 29, 31, 33
- Lesson 6.6 Use Proportionality Theorems Problems: # 3, 5, 8, 9, 13, 15, 17, 21, 24
- Lesson 6.7 Perform Similarity Transformantions Problems: # 3, 5, 7, 9, 12, 13, 16, 18, 19, 21, 23, 26, 29
- _____ Chapter 6 Summary and Review Problems: ALL