

# GEOMETRY B (CPM Math 2)

Day	In-Class Work	Home Work	Resources	MI Objectives	Objectives
1	Review Geometry A		review packet		
	<b>Unit 6 Tool Kit: Writing Proofs</b>				
2	TK 1-7	TK 8-13	TK 1(quiz); TOOL KIT		Solve application problems citing justifications for each step.
3	TK 14-18	TK 19-24			Prove several conjectures from previous units using mainly paragraph format.
4	TK 25-30	TK 31-36	TK 29		
5	TK 37-42	TK 43-47			Practice using the flowchart format with proofs.
6	TK 48-55	TK 56-61	TK 54(laws of ex.)		Review laws of exponents.
7	<b>Quiz</b> ; TK 62-66	TK 67-72			Prove Pythagorean Theorem.
8	TK 73-81	TK 82-86, 93-94	GP		Develop converses and proof by counterexample.
9	TK 87-92	TK 95-98, 107-108			Practice using the two column format (T-form) w/ proofs; Prove Midsegment Thm.
10	TK 99-106	TK 109-113	GP		Develop proof by contradiction (indirect proof).
11	Unit 6 Team Quiz	TK 114-122	GP		
	<b>Unit 7 The Height of Red Hill: Trigonometry</b>				
12	T 1-6,11-13	T 7-10	T 1; GP		Explore sine, cosine, and tangent w/ calculator.
13	<b>TEST Unit 6 Ch TK</b>	T 20-25	GP		Solve equations with fractional coefficients.
14	T 14-19, 26-29	T 30-33	T 16		Develop sine, cosine, and tangent ratios w/ right triangle.
15	T 34-40				Use trig ratios in application problems.
16	T 41-46	T 47-50			Simplify radical expressions.
17	<b>Quiz</b> ;T 51-54	T 55-60	GP		Prove trig relationships.
18	T 61-66, 76-77	T 67-74			Develop relationships in special right triangles.
19	T 84-86	T 78-83,87-91	T 84, clinometer		Use trig to measure height of objects.
20	T 92-94, 95-99	T 100-106			Develop and use Law of Sines.
21	T 107-114	T 115-119	GP		Explore relationship between tan and slope ratios.
22	T 120-125	T 126-131			
23	Unit 7 Team Quiz	S 1, 5-8	GP		

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	<b>Unit 8 The Trekee's Clubhouse Logo: Similarity</b>				
24	S 2-4, 9-14	S 13-19	GP		Develop intuitive understanding of similarity; practice scale drawings as
25	<b>TEST Unit 7 Chap T</b>	S 30-33			an application of similarity.
26	S 20-26	S 27-29	GP		Investigate AAA Similarity Theorem; develop basic ratios of similarity for plane figures.
27	S 34-38	S 39-43, 49-51	GP		Use similarity ratios to solve application problems in triangles.
28	S 44-48, 55-58	S 52-54, 59-61	GP		
29	<b>Quiz; S 65-70</b>	S 62-64, 71-75	S 66		Develop ratios for perimeter, area, and volume.
30	S 76-80	S 81-85			Solve problems using ratios for length, area, & volume in similar figures.
31	S 86-90	S 91-94	GP		
32	S 95-100	S 101-105			Develop SAS & SSS Similarity Theorems.
33	Unit 8 Team Quiz	S 106-112			
<b>Day</b>	<b>In-Class Work</b>	<b>Home Work</b>	<b>Resources</b>	<b>MI Objectives</b>	<b>Objectives</b>
	<b>Unit 9 Urban Sprawl: Polygons, Area, and Proof</b>				
34	US 1-6,13-16	US 7-12	US 2		Develop formula for sum of the angles of a polygon.
35	<b>TEST Unit 8 Chap S</b>	US 17-25			Develop formula for angles of regular polygon.
36	US 26-32	US 33-38	US 26		Develop formula for sum of exterior angles of a polygon.
37	US 39-41,48-51	US 43-47	US 48,49		Find area of polygons using figure dissection; Find surface area of prisms.
38	<b>Quiz; US 57-61</b>	US 52-56, 62-66	US 57-59,61; iso paper		Develop formula to find area of any regular polygon.
39	US 67-73	US 74-79, 86-90			
40	US 80-85, 91-93	US 95-99	US 80		Discover characteristics of quadrilaterals through proof; Practice proofs w/ polygons.
41	Unit 9 Team Quiz	US 102-106			

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	<b>Unit 10 The One-Eyed Jack Mine: Circles and Solids</b>				
42	CS 1-5,11,12	CS 7-10	circular objects		Review basic circle vocabulary.
43	<b>TEST Unit 9 Ch US</b>	CS 13-20			Explore relationship between arcs and central angles.
44	CS 21-24	CS 25-29	CS 21		Explore relationship between arcs and inscribed angles.
45	CS 30-34	CS 35-39			Explore relationship between radii & tangents.
46	CS 40-44	CS 45-49, 56-58	CS 40; GP		Explore diameter-chord relationships.
47	<b>Quiz;</b> CS 50-55, 60-61	CS 62-67			Use conjectures about circles to solve problems.
48	CS 68-71	CS 72-75, 84-86	scrap paper		Develop formulas for volume of prisms & cylinders.
49	CS 76-80, 87-93	CS 81-83, 94-97	CS 76?		Develop formulas for volume of pyramids & cones.
50	Unit 10 Team Quiz	CS 98-104			
	<b>Unit 11 Geometric Probability</b>				
51	GP 1-6,11,12	GP 7-10			Develop understanding of simple probability.
52	GP 13-14,15a-17	GP 18-22			Use area models to calculate probability.
53	3-D 54-57	GP 23-24,26,28-31			Develop equation of a circle; Calculate probability using alg. & geo. models.
54	<b>TEST Unit 10 Ch CS</b>	Exam Review Packet			
55	Review for Final	Exam Review Packet			
56	Review for Final	Exam Review Packet			
57	Review for Final				
58	<b>FINAL EXAM</b>				