BANDY   **Geometry Syllabus 2023-2024 (subject to small changes)**

MAS - Wednesdays, EAS - Thursdays   video lengths

Lessons in italics are to be completed at home BEFORE class that week.   in class minutes

16-Aug	**week 1**	☐ *Chapter 1 Introduction*	31	
	1A	☐ Chapter 1 Lesson 1: Points, Lines, and Planes	18	
	1B	☐ Chapter 1 Lesson 2: Angles and the Size of the Earth	17	
	1C	☐ Chapter 1 Lesson 3: Polygons and Polyhedra	16	
		☐ Chapter 1 Lesson 4: Telling Time with Shadows	7	
		☐ Chapter 1 Lesson 5: We Can't Go On Like This	4	62
23-Aug	**week 2**	☐ *Chapter 1 Lesson 6 (Algebra Review 1)*	18	
	1D	☐ Chapter 2 Lesson 1: Conditional Statements	13	
	2A	☐ Chapter 2 Lesson 2: Definitions	9	
		☐ Chapter 2 Lesson 3: Direct Proof	24	46
30-Aug	**week 3**	☐ *Chapter 2 Lesson 7 (Algebra Review 2)*	24	
	T1	☐ Chapter 2 Lesson 4: Indirect Proof	22	
	2B, C, D	☐ Chapter 2 Lesson 5: A Deductive System	31	
		☐ Chapter 2 Lesson 6: Some Famous Theorem of Geometry	14	67
6-Sep	**week 4**	☐ *Chapter 3 Lesson 1: Number Operations and Equality*	12	
	T2	☐ Chapter 3 Lesson 2: The Ruler and Distance	18	
	3A B	☐ Chapter 3 Lesson 3: The Protractor and Angle Measure	28	
		☐ Chapter 3 Lesson 4: Bisection	9	55
13-Sep	**week 5**	☐ *Chapter 3 Lesson 8 (Algebra Review 3)*	32	
	3C, D, E, F	☐ Chapter 3 Lesson 5: Complementary and Supp. Angles	22	
	(3G)	☐ Chapter 3 Lesson 6: Linear Pairs and Vertical Angles	16	
		☐ Chapter 3 Lesson 7: Perpendicular and Parallel Lines	10	48
20-Sep	**week 6**	☐ *Chapter 4 Lesson 1: Coordinates and Distance*	37	
	T3	☐ Chapter 4 Lesson 2: Polygons and Congruence	21	
	4A, B, C	☐ Chapter 4 Lesson 3: ASA and SAS Congruence	27	
		☐ Chapter 4 Lesson 4: Congruence Proofs	5	53
27-Sep	**week 7**	☐ *Chapter 4 Lesson 5: Isosceles and Equilateral Triangles*	16	
	4D	☐ Chapter 4 Lesson 6: SSS Congruence	11	
	4E	☐ Chapter 4 Lesson 7: Constructions	7	
	4F	☐ Chapter 4 Lesson 8: Extra Help with Proofs	36	54
4-Oct	**week 8**	☐ *Chapter 4 Lesson 9 (Algebra Review 4)*	45	
	T4	☐ Chapter 5 Lesson 1: Properties of Inequality	27	
	5A, B, C	☐ Chapter 5 Lesson 2: The Exterior Angle Theorem	30	57
11-Oct	**off**	Fall break week - catch up! No class today		
18-Oct	**week 9**	☐ Chapter 5 Lesson 3: Triangle Side and Angle Inequalities	25	
	5D E F	☐ Chapter 5 Lesson 4: The Triangle Inequality Theorem	27	
		☐ Chapter 5 Lesson 5: Extra Help with Proofs	21	73
25-Oct	**week 10**	☐ *Chapter 5 Lesson 6 (Algebra Review 5)*	13	
	5F	☐ Chapter 6 Lesson 1: Line Symmetry	23	
	(5G)	☐ Chapter 6 Lesson 2: Proving Lines Parallel	15	
	T5	☐ Chapter 6 Lesson 3: The Parallel Postulate	16	54
1-Nov	**week 11**	☐ *Chapter 6 Lesson 4: Parallel Lines and Angles*	15	
	6A	☐ Chapter 6 Lesson 5: The Angles of a Triangle	11	
	6B	☐ Chapter 6 Lesson 6: AAS and HL Congruence	12	
		☐ Chapter 6 Lesson 7: Extra Help with Proofs	24	47

8-Nov	**week 12**	▱ *Chapter 6 Lesson 8 (Algebra Review 6)*	28	
	6C	▱ *Chapter 7 Lesson 1: Quadrilaterals*	16	
	7A	☐ Chapter 7 Lesson 2: Parallelograms and Point Symmetry	18	
		☐ Chapter 7 Lesson 3: More on Parallelograms	54	72
15-Nov	**week 13**	▱ *Chapter 7 Lesson 7 (Algebra Review 7)*	49	
	7B, C*, D*	☐ Chapter 7 Lesson 4: Rectangles, Rhombuses, and Squares	37	
	T6	☐ Chapter 7 Lesson 5: Trapezoids	15	
		☐ Chapter 7 Lesson 6: The Midsegment Theorem	15	67
22-Nov	**off**	**THANKSGIVING BREAK**		
29-Nov	**week 14**	REVIEW DAY in class		
	7E, F, G	Test 7 is optional - recommended for practice but will not hurt current average		
		midterm exam due by Saturday, 12/16/2023		
6-Dec	**week 15**	▱ *Chapter 8 Lesson 1: Transformations*	48	
	8A	☐ Chapter 8 Lesson 2: Reflections	27	
	8B	☐ Chapter 8 Lesson 3: Isometries and Congruence	18	
	8C	☐ Chapter 8 Lesson 4: Transformations and Symmetry	11	
		☐ Chapter 8 Lesson 5 (Algebra Review 8)	32	88
	T8	**Chapter 8 test due by Thursday, 12/21/2023**		

				in class minutes

SPRING SEMESTER: **BANDY**

*Lessons in italics are to be completed at home BEFORE class that week.   in class minutes

Date	Week/Ref	Lesson	Min	Total
3-Jan		Mrs. Bandy's class will not meet this week. Enjoy your math break until Epiphany!		
10-Jan	**week 16**	☐ Chapter 9 Lesson 1: Area	44	
	9A B C D	☐ Chapter 9 Lesson 2: Squares and rectangles	49	
		☐ Chapter 9 Lesson 3: Triangles	31	124
17-Jan	**week 17**	▱ *Chapter 9 Lesson 6 (Algebra Review 9)*	27	
	9E	☐ Chapter 9 Lesson 4: Parallelograms and trapezoids	18	
	9F	☐ Chapter 9 Lesson 5: The Pythagorean theorem	16	
	10A	☐ Chapter 10 Lesson 1: Ratio and Proportion	17	
		☐ Chapter 10 Lesson 2: Similar figures	11	62
24-Jan	**week 18**	▱ *Chapter 10 Lesson 7 (Algebra Review 10)*	40	
	T9	☐ Chapter 10 Lesson 3: The Side-Splitter theorem	20	
	10B	☐ Chapter 10 Lesson 4: AA similarity	16	
	10C	☐ Chapter 10 Lesson 5: Proportions and dilations	25	
	10D	☐ Chapter 10 Lesson 6: Perimeters and areas of similar figs	12	73
31-Jan	**week 19**	▱ *Chapter 11 Lesson 2: The Pythagorean Thm revisited again*	*18*	
	T10	☐ Chapter 11 Lesson 1: Proportions in a right triangle	32	
	11A B C	☐ Chapter 11 Lesson 3: Isosceles and 30-60-90 triangles	26	58
7-Feb	**week 20**	▱ *Chapter 11 Lesson 4: The tangent ratio*	32	
	11D	☐ Chapter 11 Lesson 5: The sine and cosine ratios	26	
	11E	☐ Chapter 11 Lesson 6: Slope and the tangent	17	43 +
		☐ Begin Chapter 11 Lesson 7: Law of Sines		
14-Feb	**off**	Winter Break		
21-Feb	**week 21**	▱ *Chapter 11 Lesson 8 (Algebra Review 11)*	21	
	11F	☐ Chapter 11 Lesson 7: The laws of sine and cosine	26	
		☐ Chapter 12 Lesson 1: Circles, radii, and chords	33	59
28-Feb	**week 22**	▱ *Chapter 12 Lesson 2: Tangents - watch through vid. g*	23	
		☐ Chapter 12 Lesson 2: Tangents - finish in class	7	
	T11	☐ Chapter 12 Lesson 3: Central angles and arcs	14	
	12A B C	☐ Chapter 12 Lesson 4: Inscribed angles	24	45
7-Mar	**week 23**	▱ *Chapter 12 Lesson 7 (Algebra Review 12)*	14	
	12D	☐ Chapter 12 Lesson 5: Secant angles	8	
		☐ Chapter 12 Lesson 6: Tangent segments & intersecting chords	39	47
14-Mar	**week 24**	▱ *Chapter 13 Lesson 1: Triangles and circles watch through 13.1d*	10	
		☐ Chapter 13 Lesson 1: Triangles and circles - finish in class	14	
	T12	☐ Chapter 13 Lesson 2: Cyclic quadrilaterals	18	
	13A	☐ Chapter 13 Lesson 3: Incircles	16	48
21-Mar	**week 25**	▱ *Chapter 13 Lesson 7 (Algebra Review 13)*	19	
	13B C D E	☐ Chapter 13 Lesson 4: Centroids	20	
		☐ Chapter 13 Lesson 5: Ceva's theorem	9	
		☐ Chapter 13 Lesson 6: Napoleons discovery…	9	38
28-Mar	**week 26**	▱ *Chapter 14 Lesson 1: Regular polygons*	16	
	T13	☐ Chapter 14 Lesson 2: The perimeter of a regular polygon	33	
	14A	☐ Chapter 14 Lesson 3: The area of a regular polygon	32	65
4-Apr	**off**	Spring Break!!		
11-Apr	**week 27**	▱ *Chapter 14 Lesson 5: The area of a circle*	28	
	14B C (D)	☐ Chapter 14 Lesson 4: From polygons to Pi	34	
	15A	☐ Chapter 14 Lesson 6: Sectors and arcs	27	
		☐ Chapter 15 Lesson 2: Rectanglular solids	22	83
18-Apr	**week 28**	▱ *Chapter 15 Lesson 1: Lines and planes in space: 3D geometry*	18	
	T14	☐ Chapter 15 Lesson 3: Prisms	18	
	15B C D E	☐ Chapter 15 Lesson 4: The volume of a prism *practice at home*	17 + 13	

		☐ Chapter 15 Lesson 5: Pyramids	15	40
25-Apr	**week 29**	☐ *Chapter 15 Lesson 6: Cylindars and cones -* practice in class	36+5	
	15F G (H hon)	☐ Chapter 15 Lesson 7: Spheres	20	
		☐ Chapter 15 Lesson 8: Similar solids	19	39
2-May	**week 30**	☐ *Chapter 15 Lesson 9: The regular polyhedra and the End*	15	

Final Exam Review Day

Test 15 optional - recommended for practice but will not hurt current average

semester exam and all remaining work due by 5/24/2024

* work received on or before 5/20 will be eligible for corrections