

Mrs. Bandy Geometry Syllabus 2024-2025 (subject to small changes)

MAS - Wednesdays, EAS - Tuesdays

video lengths

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

in class minutes

| | | | |
|-----------------------|---|----|----|
| 13-Aug week 1 | <input type="checkbox"/> <i>Chapter 1 Introduction</i> | 31 | |
| 1A | <input type="checkbox"/> Chapter 1 Lesson 1: Points, Lines, and Planes | 18 | |
| 1B | <input type="checkbox"/> Chapter 1 Lesson 2: Angles and the Size of the Earth | 17 | |
| 1C | <input type="checkbox"/> Chapter 1 Lesson 3: Polygons and Polyhedra | 16 | 51 |
| 20-Aug week 2 | <input type="checkbox"/> <i>Chapter 1 Lesson 4: Telling Time with Shadows</i> | 7 | |
| 1D | <input type="checkbox"/> <i>Chapter 1 Lesson 5: We Can't Go On Like This</i> | 4 | |
| 2A | <input type="checkbox"/> <i>Chapter 1 Lesson 6 (Algebra Review 1)</i> | 18 | |
| | <input type="checkbox"/> Chapter 2 Lesson 1: Conditional Statements | 13 | |
| | <input type="checkbox"/> Chapter 2 Lesson 2: Definitions | 9 | |
| | <input type="checkbox"/> Chapter 2 Lesson 3: Direct Proof | 24 | 46 |
| 27-Aug week 3 | <input type="checkbox"/> <i>Chapter 2 Lesson 7 (Algebra Review 2)</i> | 24 | |
| T1 | <input type="checkbox"/> Chapter 2 Lesson 4: Indirect Proof | 22 | |
| 2B, C, D | <input type="checkbox"/> Chapter 2 Lesson 5: A Deductive System | 31 | |
| | <input type="checkbox"/> Chapter 2 Lesson 6: Some Famous Theorem of Geometry | 14 | 67 |
| 3-Sep week 4 | <input type="checkbox"/> <i>Chapter 3 Lesson 1: Number Operations and Equality</i> | 12 | |
| T2 | <input type="checkbox"/> Chapter 3 Lesson 2: The Ruler and Distance | 18 | |
| 3A B | <input type="checkbox"/> Chapter 3 Lesson 3: The Protractor and Angle Measure | 28 | |
| | <input type="checkbox"/> Chapter 3 Lesson 4: Bisection | 9 | 55 |
| 10-Sep week 5 | <input type="checkbox"/> <i>Chapter 3 Lesson 8 (Algebra Review 3)</i> | 32 | |
| 3C, D, E, F (3G) | <input type="checkbox"/> Chapter 3 Lesson 5: Complementary and Supp. Angles | 22 | |
| | <input type="checkbox"/> Chapter 3 Lesson 6: Linear Pairs and Vertical Angles | 16 | |
| | <input type="checkbox"/> Chapter 3 Lesson 7: Perpendicular and Parallel Lines | 10 | 48 |
| 17-Sep week 6 | <input type="checkbox"/> <i>Chapter 4 Lesson 1: Coordinates and Distance</i> | 37 | |
| T3 | <input type="checkbox"/> Chapter 4 Lesson 2: Polygons and Congruence | 21 | |
| 4A, B, C | <input type="checkbox"/> Chapter 4 Lesson 3: ASA and SAS Congruence | 27 | |
| | <input type="checkbox"/> Chapter 4 Lesson 4: Congruence Proofs | 5 | 53 |
| 24-Sep week 7 | <input type="checkbox"/> <i>Chapter 4 Lesson 5: Isosceles and Equilateral Triangles</i> | 16 | |
| 4D | <input type="checkbox"/> Chapter 4 Lesson 6: SSS Congruence | 11 | |
| 4E | <input type="checkbox"/> Chapter 4 Lesson 7: Constructions | 7 | |
| 4F | <input type="checkbox"/> Chapter 4 Lesson 8: Extra Help with Proofs | 36 | 54 |
| 1-Oct week 8 | <input type="checkbox"/> <i>Chapter 4 Lesson 9 (Algebra Review 4)</i> | 45 | |
| T4 | <input type="checkbox"/> Chapter 5 Lesson 1: Properties of Inequality | 27 | |
| 5A, B, C | <input type="checkbox"/> Chapter 5 Lesson 2: The Exterior Angle Theorem | 30 | 57 |
| 8-Oct week 9 | <input type="checkbox"/> Chapter 5 Lesson 3: Triangle Side and Angle Inequalities | 25 | |
| 5D E F | <input type="checkbox"/> Chapter 5 Lesson 4: The Triangle Inequality Theorem | 27 | |
| | <input type="checkbox"/> Chapter 5 Lesson 5: Extra Help with Proofs | 21 | 73 |
| 15-Oct off | Fall break week - catch up! No class today | | |
| 22-Oct week 10 | <input type="checkbox"/> <i>Chapter 5 Lesson 6 (Algebra Review 5)</i> | 13 | |
| 5F | <input type="checkbox"/> Chapter 6 Lesson 1: Line Symmetry | 23 | |
| (5G) | <input type="checkbox"/> Chapter 6 Lesson 2: Proving Lines Parallel | 15 | |
| T5 | <input type="checkbox"/> Chapter 6 Lesson 3: The Parallel Postulate | 16 | 54 |
| 29-Oct week 11 | <input type="checkbox"/> <i>Chapter 6 Lesson 4: Parallel Lines and Angles</i> | 15 | |
| 6A | <input type="checkbox"/> Chapter 6 Lesson 5: The Angles of a Triangle | 11 | |
| 6B | <input type="checkbox"/> Chapter 6 Lesson 6: AAS and HL Congruence | 12 | |
| | <input type="checkbox"/> Chapter 6 Lesson 7: Extra Help with Proofs | 24 | 47 |

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| 5-Nov week 12 | Election Day Tuesday - EAS on your own, or tune in for Zoom on Wednesday at 10:40! (Wednesday's class will be recorded, if you want to watch it later in the week) | | |
| 6C | <input type="checkbox"/> Chapter 6 Lesson 8 (<i>Algebra Review 6</i>) | 28 | |
| 7A | <input type="checkbox"/> Chapter 7 Lesson 1: <i>Quadrilaterals</i> | 16 | |
| | <input type="checkbox"/> Chapter 7 Lesson 2: Parallelograms and Point Symmetry | 18 | |
| | <input type="checkbox"/> Chapter 7 Lesson 3: More on Parallelograms | 54 | 72 |
| 12-Nov week 13 | <input type="checkbox"/> Chapter 7 Lesson 7 (<i>Algebra Review 7</i>) | 49 | |
| 7B, C*, D* | <input type="checkbox"/> Chapter 7 Lesson 4: Rectangles, Rhombuses, and Squares | 37 | |
| T6 | <input type="checkbox"/> Chapter 7 Lesson 5: Trapezoids | 15 | |
| | <input type="checkbox"/> Chapter 7 Lesson 6: The Midsegment Theorem | 15 | 67 |
| 19-Nov week 14 | REVIEW DAY in class - Jeopardy! | | |
| 7E, F, G | midterm exam due 12/3 - after the break | | |
| T7 | | | |
| 26-Nov off | THANKSGIVING BREAK | | |
| 3-Dec week 15 | <input type="checkbox"/> Chapter 8 Lesson 1: Transformations | 48 | |
| 8A, B | <input type="checkbox"/> Chapter 8 Lesson 2: Reflections | 27 | 75 |
| 10-Dec week 16 | <input type="checkbox"/> Chapter 8 Lesson 3: Isometries and Congruence | 18 | |
| 8C | <input type="checkbox"/> Chapter 8 Lesson 4: Transformations and Symmetry | 11 | |
| T8 | <input type="checkbox"/> Chapter 8 Lesson 5 (<i>Algebra Review 8</i>) | 32 | 61 |
| | Chapter 8 test due by Wednesday 12/18 | | |

SPRING SEMESTER:

BANDY

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

in class minutes

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|-----------------------|--|----|----|
| 7-Jan week 17 | <input type="checkbox"/> Chapter 9 Lesson 1: Area | 44 | |
| 9A B C D | <input type="checkbox"/> Chapter 9 Lesson 2: Squares and rectangles | 49 | 93 |
| 14-Jan week 18 | <input type="checkbox"/> Chapter 9 Lesson 6 (<i>Algebra Review 9</i>) | 27 | |
| 9E F | <input type="checkbox"/> Chapter 9 Lesson 3: Triangles | 31 | |
| | <input type="checkbox"/> Chapter 9 Lesson 4: Parallelograms and trapezoids | 18 | 76 |
| 21-Jan week 19 | <input type="checkbox"/> Chapter 9 Lesson 5: The Pythagorean theorem | 16 | |
| 10A | <input type="checkbox"/> Chapter 10 Lesson 1: Ratio and Proportion | 17 | |
| 10B | <input type="checkbox"/> Chapter 10 Lesson 2: Similar figures | 11 | |
| 10C | <input type="checkbox"/> Chapter 10 Lesson 3: The Side-Splitter theorem | 20 | 64 |
| 28-Jan week 20 | <input type="checkbox"/> Chapter 10 Lesson 7 (<i>Algebra Review 10</i>) | 40 | |
| T9 | <input type="checkbox"/> Chapter 10 Lesson 4: AA similarity | 16 | |
| 10D | <input type="checkbox"/> Chapter 10 Lesson 5: Proportions and dilations | 25 | |
| | <input type="checkbox"/> Chapter 10 Lesson 6: Perimeters and areas of similar figs | 12 | 53 |
| 4-Feb week 21 | <input type="checkbox"/> Chapter 11 Lesson 2: <i>The Pythagorean Thm revisited again</i> | 18 | |
| T10 | <input type="checkbox"/> Chapter 11 Lesson 1: Proportions in a right triangle | 32 | |
| 11A B C | <input type="checkbox"/> Chapter 11 Lesson 3: Isosceles and 30-60-90 triangles | 26 | 58 |
| 11-Feb week 22 | <input type="checkbox"/> Chapter 11 Lesson 4: The tangent ratio | 32 | |
| 11D | <input type="checkbox"/> Chapter 11 Lesson 5: The sine and cosine ratios | 26 | |
| 11E | <input type="checkbox"/> Chapter 11 Lesson 6: Slope and the tangent | 17 | 75 |
| 18-Feb off | Winter Break | | |

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| 25-Feb week 23 | <input type="checkbox"/> Chapter 11 Lesson 8 (Algebra Review 11) | 21 | |
| 11F | <input type="checkbox"/> Chapter 11 Lesson 7: The laws of sine and cosine | 26 | 26 |
| 4-Mar week 24 | <input type="checkbox"/> Chapter 12 Lesson 2: Tangents - watch through vid. g | 23 | |
| T11 | <input type="checkbox"/> Chapter 12 Lesson 1: Circles, radii, and chords | 33 | |
| 12A B C | <input type="checkbox"/> Chapter 12 Lesson 2: Tangents - finish in class | 7 | |
| | <input type="checkbox"/> Chapter 12 Lesson 3: Central angles and arcs | 14 | |
| | <input type="checkbox"/> Chapter 12 Lesson 4: Inscribed angles | 24 | 78 |
| 11-Mar week 25 | <input type="checkbox"/> Chapter 12 Lesson 7 (Algebra Review 12) | 14 | |
| 12D | <input type="checkbox"/> Chapter 12 Lesson 5: Secant angles | 8 | |
| | <input type="checkbox"/> Chapter 12 Lesson 6: Tangent segments & intersecting chords | 39 | 47 |
| 18-Mar week 26 | <input type="checkbox"/> Chapter 13 Lesson 1: Triangles and circles watch through 13.1d | 10 | |
| T12 | <input type="checkbox"/> Chapter 13 Lesson 1: Triangles and circles - finish in class | 14 | |
| 13A | <input type="checkbox"/> Chapter 13 Lesson 2: Cyclic quadrilaterals | 18 | |
| | <input type="checkbox"/> Chapter 13 Lesson 3: Incircles | 16 | 48 |
| 25-Mar week 27 | <input type="checkbox"/> Chapter 13 Lesson 7 (Algebra Review 13) | 19 | |
| 13B C D E | <input type="checkbox"/> Chapter 13 Lesson 4: Centroids | 20 | |
| | <input type="checkbox"/> Chapter 13 Lesson 5: Ceva's theorem | 9 | |
| | <input type="checkbox"/> Chapter 13 Lesson 6: Napoleons discovery... | 9 | 38 |
| 1-Apr week 28 | <input type="checkbox"/> Chapter 14 Lesson 1: Regular polygons | 16 | |
| T13 | <input type="checkbox"/> Chapter 14 Lesson 2: The perimeter of a regular polygon | 33 | |
| 14A | <input type="checkbox"/> Chapter 14 Lesson 3: The area of a regular polygon | 32 | 65 |
| 8-Apr off | Spring Break!! | | |
| 15-Apr week 29 | <input type="checkbox"/> Chapter 14 Lesson 5: The area of a circle | 28 | |
| 14B C (D) | <input type="checkbox"/> Chapter 14 Lesson 4: From polygons to Pi | 34 | |
| 15A | <input type="checkbox"/> Chapter 14 Lesson 6: Sectors and arcs | 27 | |
| | <input type="checkbox"/> Chapter 15 Lesson 2: Rectangular solids | 22 | 83 |
| 22-Apr week 30 | <input type="checkbox"/> Chapter 15 Lesson 1: Lines and planes in space: 3D geometry | 18 | |
| T14 | <input type="checkbox"/> Chapter 15 Lesson 3: Prisms | 18 | |
| 15B C D E | <input type="checkbox"/> Chapter 15 Lesson 4: The volume of a prism <i>practice at home</i> | 17 + 13 | |
| | <input type="checkbox"/> Chapter 15 Lesson 5: Pyramids | 15 | 40 |
| 29-Apr week 31 | <input type="checkbox"/> Chapter 15 Lesson 6: Cylinders and cones - practice in class | 36+5 | |
| 15F G (H hon) | <input type="checkbox"/> Chapter 15 Lesson 7: Spheres | 20 | |
| | <input type="checkbox"/> Chapter 15 Lesson 8: Similar solids | 19 | 39 |
| 6-May week 32 | <input type="checkbox"/> 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 Friday, 5/23/2025

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