

BANDY

## Geometry Syllabus 2022-2023 (subject to small changes)

MAS - Wednesdays, EAS - Thursdays

video lengths

|                    |                |   |    |    |
|--------------------|----------------|---|----|----|
| 17-Aug             | <b>week 1</b>  | <input type="checkbox"/> Chapter 1 Introduction                                   | 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 |    |
|                    |                | <input type="checkbox"/> Chapter 1 Lesson 4: Telling Time with Shadows            | 7  | 89 |
| 24-Aug             | <b>week 2</b>  | <input type="checkbox"/> Chapter 1 Lesson 5: We Can't Go On Like This             | 4  |    |
|                    | 1D             | <input type="checkbox"/> Chapter 1 Lesson 6 (Algebra Review 1)                    | 18 |    |
|                    | 2A             | <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 | 68 |
| 31-Aug             | <b>week 3</b>  | <input type="checkbox"/> Chapter 2 Lesson 4: Indirect Proof                       | 22 |    |
|                    | T1             | <input type="checkbox"/> Chapter 2 Lesson 5: A Deductive System                   | 31 |    |
|                    | 2B, C, D       | <input type="checkbox"/> Chapter 2 Lesson 6: Some Famous Theorem of Geometry      | 14 |    |
|                    |                | <input type="checkbox"/> Chapter 2 Lesson 7 (Algebra Review 2)                    | 24 | 91 |
| 7-Sep              | <b>week 4</b>  | <input type="checkbox"/> Chapter 3 Lesson 1: Number Operations and Equality       | 12 |    |
|                    | T2             | <input type="checkbox"/> Chapter 3 Lesson 2: The Ruler and Distance               | 18 |    |
|                    | 3A             | <input type="checkbox"/> Chapter 3 Lesson 3: The Protractor and Angle Measure     | 28 |    |
|                    | 3B             | <input type="checkbox"/> Chapter 3 Lesson 4: Bisection                            | 9  | 67 |
| 14-Sep             | <b>week 5</b>  | <input type="checkbox"/> Chapter 3 Lesson 5: Complementary and Supp. Angles       | 22 |    |
| <b>Mrs. B out!</b> | 3C, D, E, F    | <input type="checkbox"/> Chapter 3 Lesson 6: Linear Pairs and Vertical Angles     | 16 |    |
| <b>Watch vids</b>  | (3G)           | <input type="checkbox"/> Chapter 3 Lesson 7: Perpendicular and Parallel Lines     | 10 |    |
| <b>at home!</b>    |                | <input type="checkbox"/> Chapter 3 Lesson 8 (Algebra Review 3)                    | 32 | 80 |
| 21-Sep             | <b>week 6</b>  | <input type="checkbox"/> Chapter 4 Lesson 1: Coordinates and Distance             | 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  | 90 |
| 28-Sep             | <b>week 7</b>  | <input type="checkbox"/> Chapter 4 Lesson 5: Isosceles and Equilateral Triangles  | 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 | 70 |
| 5-Oct              | <b>week 8</b>  | <input type="checkbox"/> Chapter 4 Lesson 9 (Algebra Review 4)                    | 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 | 82 |
| 12-Oct             | <b>off</b>     | Fall break week - catch up! No class today  |    |    |
| 19-Oct             | <b>week 9</b>  |   |    |    |
|                    | 5D             | <input type="checkbox"/> Chapter 5 Lesson 3: Triangle Side and Angle Inequalities | 25 |    |
|                    | 5E             | <input type="checkbox"/> Chapter 5 Lesson 4: The Triangle Inequality Theorem      | 27 |    |
|                    | 5F             | <input type="checkbox"/> Chapter 5 Lesson 5: Extra Help with Proofs               | 21 | 73 |
| 26-Oct             | <b>week 10</b> | <input type="checkbox"/> Chapter 5 Lesson 6 (Algebra Review 5)                    | 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 | 67 |
| 2-Nov              | <b>week 11</b> | <input type="checkbox"/> Chapter 6 Lesson 4: Parallel Lines and Angles            | 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 | 62 |
| 9-Nov  | <b>week 12</b> | <input type="checkbox"/> Chapter 6 Lesson 8 (Algebra Review 6)                  | 28 |    |
|        | 6C             | <input type="checkbox"/> Chapter 7 Lesson 1: Quadrilaterals                     | 16 |    |
|        | 7A             | <input type="checkbox"/> Chapter 7 Lesson 2: Parallelograms and Point Symmetry  | 18 | 62 |
| 16-Nov | <b>week 13</b> | <input type="checkbox"/> Chapter 7 Lesson 3: More on Parallelograms             | 54 |    |
|        | 7B, C*, D*     | <input type="checkbox"/> Chapter 7 Lesson 4: Rectangles, Rhombuses, and Squares | 37 | 91 |
| 23-Nov | <b>off</b>     | <b>THANKSGIVING BREAK</b>   |    |    |
| 30-Nov | <b>week 14</b> | <input type="checkbox"/> Chapter 7 Lesson 5: Trapezoids                         | 15 |    |
|        | T6             | <input type="checkbox"/> Chapter 7 Lesson 6: The Midsegment Theorem             | 15 |    |
|        | 7E, F, G       | <input type="checkbox"/> Chapter 7 Lesson 7 (Algebra Review 7)                  | 49 | 79 |
| 7-Dec  | <b>week 15</b> | REVIEW DAY in class   |    |    |
|        | (Test 7)       |   |    |    |

**midterm exam due by 12/16/2022**

#### SPRING SEMESTER:

|        |                |  |    |     |
|--------|----------------|--|----|-----|
| 4-Jan  | <b>week 15</b> | <input type="checkbox"/> Chapter 8 Lesson 1:                                       | 10 |     |
|        | 8A             | <input type="checkbox"/> Chapter 8 Lesson 2:                                       | 27 |     |
|        | 8B             | <input type="checkbox"/> Chapter 8 Lesson 3:                                       | 18 |     |
|        | 8C             | <input type="checkbox"/> Chapter 8 Lesson 4:                                       | 11 |     |
|        |                | <input type="checkbox"/> Chapter 8 Lesson 5 (Algebra Review 8)                     | 32 | 98  |
| 11-Jan | <b>week 16</b> | <input type="checkbox"/> Chapter 9 Lesson 1: Area                                  | 44 |     |
|        | T8             | <input type="checkbox"/> Chapter 9 Lesson 2: Squares and rectangles                | 49 |     |
|        | 9A B C D       | <input type="checkbox"/> Chapter 9 Lesson 3: Triangles                             | 31 |     |
|        |                | <input type="checkbox"/> Chapter 9 Lesson 4: Parallelograms and trapezoids         | 18 | 142 |
| 18-Jan | <b>week 17</b> | <input type="checkbox"/> Chapter 9 Lesson 5: The Pythagorean theorem               | 16 |     |
|        | 9E             | <input type="checkbox"/> Chapter 9 Lesson 6 (Algebra Review 9)                     | 27 |     |
|        | 9F             | <input type="checkbox"/> Chapter 10 Lesson 1: Ratio and Proportion                 | 17 |     |
|        | 10A            | <input type="checkbox"/> Chapter 10 Lesson 2: Similar figures                      | 11 | 71  |
| 25-Jan | <b>week 18</b> | <input type="checkbox"/> Chapter 10 Lesson 3: The Side-Splitter theorem            | 20 |     |
|        | T9             | <input type="checkbox"/> Chapter 10 Lesson 4: AA similarity                        | 16 |     |
|        | 10B            | <input type="checkbox"/> Chapter 10 Lesson 5: Proportions and dilations            | 25 |     |
|        | 10C            | <input type="checkbox"/> Chapter 10 Lesson 6: Perimeters and areas of similar figs | 12 |     |
|        | 10D            | <input type="checkbox"/> Chapter 10 Lesson 7 (Algebra Review 10)                   | 40 | 113 |
| 1-Feb  | <b>week 19</b> | <input type="checkbox"/> Chapter 11 Lesson 1: Proportions in a right triangle      | 32 |     |
|        | T10            | <input type="checkbox"/> Chapter 11 Lesson 2: The Pythagorean Thm revisited again  | 18 |     |
|        | 11A B C        | <input type="checkbox"/> Chapter 11 Lesson 3: Isosceles and 30-60-90 triangles     | 26 | 76  |
| 8-Feb  | <b>week 20</b> | <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  |
| 15-Feb | <b>off</b>     | Winter Break   |    |     |
| 22-Feb | <b>week 21</b> | <input type="checkbox"/> Chapter 11 Lesson 7: The laws of sine and cosine          | 26 |     |
|        | 11F            | <input type="checkbox"/> Chapter 11 Lesson 8 (Algebra Review 11)                   | 21 |     |
|        |                | <input type="checkbox"/> Chapter 12 Lesson 1: Circles, radii, and chords           | 33 | 80  |
| 1-Mar  | <b>week 22</b> | <input type="checkbox"/> Chapter 12 Lesson 2: Tangents                             | 30 |     |
|        | T11            | <input type="checkbox"/> Chapter 12 Lesson 3: Central angles and arcs              | 14 |     |
|        | 12A B C        | <input type="checkbox"/> Chapter 12 Lesson 4: Inscribed angles                     | 24 | 68  |

|        |                                       |  |       |    |
|--------|---------------------------------------|--|-------|----|
| 8-Mar  | <b>week 23</b>                        | <input type="checkbox"/> Chapter 12 Lesson 5: Secant angles                          | 8     |    |
|        | 12D                                   | <input type="checkbox"/> Chapter 12 Lesson 6: Tangent segments & intersecting chords | 39    |    |
|        |                                       | <input type="checkbox"/> Chapter 12 Lesson 7 (Algebra Review 12)                     | 14    | 61 |
| 15-Mar | <b>week 24</b>                        | <input type="checkbox"/> Chapter 13 Lesson 1: Triangles and circles                  | 24    |    |
|        | T12                                   | <input type="checkbox"/> Chapter 13 Lesson 2: Cyclic quadrilaterals                  | 18    |    |
|        | 13A                                   | <input type="checkbox"/> Chapter 13 Lesson 3: Incircles                              | 16    | 58 |
| 22-Mar | <b>week 25</b>                        | <input type="checkbox"/> Chapter 13 Lesson 4: Centroids                              | 20    |    |
|        | 13B C D E                             | <input type="checkbox"/> Chapter 13 Lesson 5: Ceva's theorem                         | 9     |    |
|        |                                       | <input type="checkbox"/> Chapter 13 Lesson 6: Napoleons discovery...                 | 9     |    |
|        |                                       | <input type="checkbox"/> Chapter 13 Lesson 7 (Algebra Review 13)                     | 19    | 57 |
| 29-Mar | <b>week 26</b>                        | <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    | 81 |
| 5-Apr  | <b>off</b>                            | Spring Break!!   |       |    |
| 12-Apr | <b>week 27</b>                        | <input type="checkbox"/> Chapter 14 Lesson 4: From polygons to Pi                    | 34    |    |
|        | 14B C (D)                             | <input type="checkbox"/> Chapter 14 Lesson 5: The area of a circle                   | 28    |    |
|        |                                       | <input type="checkbox"/> Chapter 14 Lesson 6: Sectors and arcs                       | 27    | 89 |
| 19-Apr | <b>week 28</b>                        | <input type="checkbox"/> Chapter 15 Lesson 1: Lines and planes in space: 3D geometry | 18    |    |
|        | T14                                   | <input type="checkbox"/> Chapter 15 Lesson 2: Rectangular solids                     | 22    |    |
|        | 15A B                                 | <input type="checkbox"/> Chapter 15 Lesson 3: Prisms                                 | 18    | 58 |
| 26-Apr | <b>week 29</b>                        | <input type="checkbox"/> Chapter 15 Lesson 4: The volume of a prism                  | 35+13 |    |
|        | 15C D E                               | <input type="checkbox"/> Chapter 15 Lesson 5: Pyramids                               | 15    |    |
|        |                                       | <input type="checkbox"/> Chapter 15 Lesson 6: Cylinders and cones                    | 36+5  | 86 |
| 3-May  | <b>week 30</b>                        | <input type="checkbox"/> Chapter 15 Lesson 7: Spheres                                | 20    |    |
|        | 15F G (H)                             | <input type="checkbox"/> Chapter 15 Lesson 8: Similar solids                         | 19    |    |
|        |                                       | <input type="checkbox"/> Chapter 15 Lesson 9: The regular polyhedra and the End      | 15    | 54 |
| 10-May | <b>exam review</b>                    |  |       |    |
|        | <b>semester exam due by 5/26/2023</b> |  |       |    |