



## Geometry Pacing Guide

### 1<sup>st</sup> 9 Weeks

#### Unit 1- Geometry Basics

- Vocabulary
- Points, Lines, Planes
- Distance & Midpoint Formula
- Segment Addition Postulate
- Intro to Angles
- Angle Addition Postulate
- Angle Relationships

#### Unit 3- Parallel & Perpendicular Lines

- Parallel Lines & Transversals
- Angles & Parallel Lines
- Slope Review
- Parallel vs. Perpendicular
- Equations of Lines ( includes Slope-Intercept, Standard Form and Point-Slope)

### 2<sup>nd</sup> 9 Weeks

#### Unit 4- Congruent Triangles

- Classifying Triangles
- Angles of Triangles
- Isosceles & Equilateral Triangles
- Congruent Triangles
- Triangle Congruence (SSS, SAS, ASA, AAS, HL)
- Angle and Segment Congruence by CPCTC

#### Unit 5- Relationships in Triangles

- Triangle Midsegments
- Perpendicular Bisectors & Angle Bisectors
- Centers of Triangles: Circumcenter & Incenter
- Medians, Altitudes, Centroid, & Orthocenter
- Triangle Inequalities

#### Unit 6- Similar Triangles

- Ratios & Proportions
- Similar Figures
- Parts of Similar Triangles

### **3<sup>rd</sup> 9 Weeks**

#### Unit 7- Quadrilaterals

- Interior & Exterior Angles of Polygons
- Parallelograms
- Rectangles
- Rhombi
- Squares
- Quadrilaterals in the Coordinate Plane
- Trapezoids

#### Unit 8- Trigonometry

- Pythagorean Theorem & Converse
- Special Right Triangles
- Similar Right Triangles
- Trig: Ratios and finding missing sides
- Trig: Finding missing angles

#### Unit 9- Transformations

- Translations
- Reflections
- Rotations
- Dilations

### **4<sup>th</sup> 9 Weeks**

#### Unit 10- Circles

- Vocabulary
- Into to Circles
- Area and Circumference
- Central Angles & Arc Measures
- Arc Length
- Chords & Arcs
- Inscribed Angles
- Tangents

#### Unit 11- Volume & Surface Area

- Area of Plane Figures
- Area of Sectors
- Area of Composite Figures & Shaded Regions
- Area of Regular Figures
- Surface Area of Prisms & Cylinders
- Surface Area of Pyramids & Cones
- Volume of Prisms & Cylinders
- Volume of Pyramids & Cones