

# **CP GEOMETRY SCOPE AND SEQUENCE**

## **Semester 1**

### **Unit 1: Tools of Geometry (September)**

(Points, Lines, Planes, Segments, Angles, Constructions, Perimeter, Circumference, Area)

### **Unit 2: Reasoning and Proof (October)**

(Inductive Reasoning, Conditionals, Deductive Reasoning)

### **Unit 3: Parallel & Perpendicular Lines (October-November)**

(Properties of Parallel & Perpendicular Lines, Linear Equations, Slope)

### **Unit 4: Congruent Triangles (November)**

(Congruent Figures, SSS, SAS, ASA, AAS, CPCTC, Isosceles Triangles, Right Triangles)

### **Unit 5: Relationships Within Triangles (December-January)**

(Midsegments, Triangle Bisectors, Medians, Altitudes, Triangle Inequalities)

## **Semester 2**

### **Unit 6: Polygons (January-February)**

(Angle-Sum Theorem, Parallelograms, Rhombuses, Rectangles, Squares, Trapezoids, Kites)

### **Unit 7: Similarity (February)**

(Ratios, Proportions, Similar Polygons, Proving Triangles Similar)

### **Unit 8: Right Triangles & Trigonometry (February-March)**

(Pythagorean Theorem, Trigonometry Ratios, Elevation, Law of Sines)

### **Unit 9: Transformations (March)**

(Translations, Reflections, Rotations, Dilations)

### **Unit 10: Area (April)**

(Area of: Parallelograms, Triangles, Trapezoids, Kites, Regular Polygons, Circles, Sectors)

### **Unit 11: Surface Area & Volume (April-May)**

(Surface Area and Volume of: Prisms, Cylinders, Pyramids, Cones, Spheres)

### **Unit 12: Circles (May)**

(Tangent Lines, Chords, Arcs, Inscribed Angles)