

# Chapter 1: Tools of Geometry

Content Area: **Math**  
Course(s): **Geometry CP, Geometry A, Geometry H**  
Time Period: **Marking Period 1**  
Length: **9 Days**  
Status: **Published**

## Unit Introduction

---

## Standards

---

MA.G-CO.A.1	Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.
MA.G-CO.D.12	Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.).

## Essential Questions

---

- How can you describe the attributes of a segment or an angle?
- What are the building blocks of geometry?

## Content

---

- 1.2 - Points, Lines, and Planes
- 1.3 - Measuring Segments
- 1.4 - Measuring Angles
- 1.5 - Exploring Angle Pairs
- 1.6 - Basic Constructions
- 10.6 Circles and Arcs (Definitions Only)

## Skills

---

- Apply algebraic properties to problems and proofs.
- Apply concepts of distance and angle measurement.
- Define and identify a circle, diameter, radius, and central angle
- Define and identify a circle, diameter, radius, and central angle
- Find measures of segments and angles.
- Identify and label points, lines, planes, segments and rays.
- Identify special angle pairs and solve problems containing them.

- Make geometric constructions (angle bisector, segment bisector, copying a segment, copying an angle).
- Solve problems involving the Angle Addition Postulate.
- Solve problems involving the Segments Addition Postulate.
- Use graphing calculator as appropriate.
- Use relevant vocabulary, symbols and notation.
- Using the midpoint to solve problems