**Chapter 1 Basics of Geometry**

**Essential Questions:**

* What are the building blocks of geometry?
* How will these elements be helpful in everyday life?
* How are the following related: a point, a line, a line segment, a ray, an angle, and a plane?

**1.1 Finding and Describing Patterns (G-CO.1 and G-CO.12)**

* I can describe and identify patterns in a given situation.
* I can make a prediction of what could happen next when given a pattern.

**1.2 Inductive Reasoning (G-GPE.4)**

* I can use inductive reasoning to make conjectures.
* I can provide counterexamples when a conjecture is false.

**1.3 Points, Lines, and Planes (G-CO.1 and G-GPE.4)**

* I can identify and draw points, lines, and planes and explain why they are "undefined terms."
* I can define collinear and coplanar in terms of points and lines.
* I can compare and contrast segments and rays.
* I can identify and create endpoints.

**1.4 Sketching Intersections (G-CO.1 and G-CO.12)**

* I can define an intersection.
* I can sketch intersections of lines and planes.

**1.5 Segments and Their Measures (G-CO.1 and G-CO.12)**

* I can use tools and methods to precisely measure segments.
* I can write the Angle Addition Postulate and use it to find an unknown measure.
* I can evaluate if two segments are congruent.

**1.6 Angles and Their Measures (G-CO.1, G-CO.9, and G-CO.12)**

* I can define, name, and sketch an angle.
* I can classify an angle as acute, obtuse, straight, or right.
* I can write the Angle Addition Postulate and use it to find an unknown measure.
* I can determine if two angles are congruent.