**Test Notes**

**Geometry**

**Unit 1 – Tools of Geometry**

Inductive Reasoning

* Make a conjecture based on a pattern in numbers or shapes
* Determine a distant future figure or number based on the conjecture

Points, Lines, Planes

* Collinear – Points on the same line
* CoPlanar – Points on the same plane
* Lines intersect in a point
* Planes intersect in a line
* Three non-collinear points define a plane
* Utilize proper notation and interpret geometric drawings

Segments, Rays, Parallel Lines and Planes

* Understand and identify, parallel, perpendicular, and skew lines
* Identify parallel planes

Measuring Segments and Angles

* Midpoint is equidistant from endpoints in a line segment
* Bisect – To divide in two equal parts
* Calculate midpoints and show results on a number line
* Utilize a protractor accurately
* Utilize the correctly named parts of an angle – Vertex, side, ray
* Name angles in multiple ways from a geometric drawing
* Angles on a straight line add up to 180°
* Angles sharing a side can be added together
* Know types of angles – Right, Acute, Obtuse, Straight
* Know combinations of angles – Vertical, Supplementary, Complimentary

Basic Constructions

* May only use a straight edge and a compass
* Accurately complete basic constructions
  + Duplicate a line
  + Duplicate an angle
  + Perpendicular bisector
  + Angle bisector

Coordinate Geometry

* Distance formula
* Midpoint formula
* Utilize both formulas, including finding endpoints

Perimeter, Circumference, Area

* Perimeter is the area around the outside of a figure
* Area of a rectangle is base \* height
* Area of a circle is πr2 , circumference of a circle is 2πr
* Area of a region is the sum of non-overlapping parts

No notes may be used. No formulas will be provided.