What's on the Final?

- ❖ Chapter 1 Sections 3 6
 - ➤ Geometry Basics
 - Points, Lines, and Planes
 - Segments, Rays, Parallel Lines and Planes
 - Measuring Segments and Segment Addition
 - Angles and Angle Addition
- ❖ Chapter 2 Sections 1 − 5
 - Reasoning and Proof
 - Conditionals, Biconditionals
 - Converse, Inverse, and Contrapositive (Chapter 5 Section 4)
 - Proofs in Algebra
 - Proving Angles Congruent
- ❖ Chapter 3 Sections 1 − 5
 - Parallel and Perpendicular Lines
 - Properties of Parallel Lines
 - Proving Lines Parallel
 - Triangle Angle-Sum Theorem
 - Polygon Angle-Sum Theorem
- ❖ Chapter 4 Sections 1 − 7
 - > Congruent Triangles
 - Congruent Figures
 - Proving Triangles Congruent: SSS, SAS, ASA, AAS, and HL
 - Using Congruent Triangles: CPCTC
 - Isosceles and Equilateral Triangles
- ❖ Chapter 5 Sections 1 − 3, and 5
 - Relationships Within Triangles
 - Midsegments of Triangles
 - Bisectors in Triangles
 - Concurrent Lines, Medians, and Altitudes
 - Inequalities in Triangles
- ❖ Chapter 6 Sections 1 − 5
 - Quadrilaterals
 - Classifying Quadrilaterals: Parallelogram, Rhombus, Rectangle, Square, Kite, Trapezoid and Isosceles Trapezoid
 - Properties of Parallelograms
 - Proving a Quadrilateral is a Parallelogram

- ❖ Chapter 7 Sections 1 − 5
 - > Similarity
 - Ratios and Proportions
 - Similar Polygons (specifically triangles)
 - Similarity in Right Triangles: Geometric Mean
 - Proportions in Triangles
- ❖ Chapter 8 Sections 1 − 8
 - Right Triangles and Trigonometry
 - Pythagorean Theorem and Its Converse
 - Special Right Triangles: 45 45 90 and 30 60 90
 - Sine, Cosine, and Tangent Ratios
 - Angles of Elevation and Depression
- ❖ Chapter 10 Sections 1 − 7
 - > Area
 - Areas of Parallelograms and Triangles
 - Areas of Trapezoids, Rhombuses, and Kites
 - Areas of Regular Polygons
 - Perimeters and Areas of Similar Figures
 - Trigonometry and Area
 - Circles and Arcs
 - Areas of Circles and Sectors
- ❖ Chapter 11 Sections 2 7
 - Surface Area and Volume
 - Surface Areas of Prisms and Cylinders
 - Surface Areas of Pyramids and Cones
 - Volumes of Prisms and Cylinders
 - Volumes of Pyramids and Cones
 - Surface Areas and Volumes of Spheres
 - Areas and Volumes of Similar Solids
- ❖ Chapter 12 Sections 1 − 4
 - Circles
 - Tangent Lines
 - Chords and Arcs
 - Inscribed Angles
 - Angle Measures and Segment Lengths