Geometry Bullets of Mastery

Basics of Geometry
- Segment Addition Postulate
- Angles and their measures
- Classifying angles
- Basic angle terminology
- Angle Addition Postulate
- Angle relationships
- Geometric diagrams and notation

Parallel Lines and the Coordinate Plane
- Parallel lines and transversals
- Points of the coordinate plane
- The Midpoint Formula
- The Distance Formula
- Slope and lines
- Graphing linear equations
- Writing linear equations

Congruent Triangles
- Classifying triangles
- Triangle angle sum
- Exterior Angle Theorem
- Triangles and congruence
- Proving triangles congruent
- Isosceles and equilateral triangles

Properties of Triangles
- Midsegment
- Angle bisectors
- Medians
- Centroid
- Triangle Inequality Theorem
- Inequalities in one triangle

Quadrilaterals and Polygons
- Classifying
- Angles
- Parallelograms
- Trapezoids
- Area of triangles and quadrilaterals
- Polygon basics

Area of regular polygons

Similarity
- Solving proportions
- Similar polygons
- Similar triangles
- Similar right triangles
- Proportional parts in triangles and parallel lines

Right Triangles
- The Pythagorean Theorem
- Multi-step Pythagorean Theorem problems
- Special right triangles
- Multi-step special right triangle problems

Trigonometry
- Finding trig. ratios
- Finding angle measures
- Solving right triangles
- Multi-step trig. problems
- Trigonometry and area

Surface Area and Volume
- Solid figures: identifying, volume, and area
- Similar solids

Circles
- Naming arcs and central angles
- Measures of arcs and central angles
- Arcs and chords
- Circumference and area
- Arc length and sector area
- Inscribed angles
- Tangents
- Secant and tangent angles
- Segment measures
- Using equations of circles
- Writing equations of circles

Through each chapter we develop an understanding of our "thinking". We develop problem solving skills