Name: _____ Date: _____ Period/Alpha#: _____

Geometry GT/Pre-AP Unit 7 Focus

Use this review to check your knowledge and skills in each section that will be covered by the test.

Students should be able to:	Examples:

4-1 Congruent Figures
4-2 Triangle Congruence by SSS and SAS
4-3 Triangle Congruence by ASA and AAS
4-6 Congruence in Right Triangles
• Determine whether triangles are congruent, write a congruence statement, and state the reason why:
  ○ Side-Side-Side (SSS)
  ○ Side-Angle-Side (SAS)
  ○ Angle-Side-Angle (ASA)
  ○ Angle-Angle-Side (AAS)
  ○ Hypotenuse-Leg (HL)
• Use corresponding congruent sides and angles to find missing values.
• Determine whether triangles on the coordinate plane are congruent (using SSS and the Pythagorean Theorem)
	Review notes, handouts, and homework from this section.

4-4 Using Congruent Triangles: CPCTC 4-7 Using Corresponding Parts of Congruent Triangles • Prove that two segments or two angles are congruent using CPCTC (Corresponding Parts of Congruent Triangles are Congruent) and the triangle congruence theorems • Write a two-column proof • Write a flow-chart proof	Review notes, handouts, and homework from this section.

5-1 Midsegments of Triangles
5-2 Bisectors in Triangles
5-3 Concurrent Lines, Medians, and Altitudes
• Identify the following special segments from a diagram.
  ○ Midsegment
  ○ Perpendicular bisector (and circumcenter)
  ○ Angle bisector (and incenter)
  ○ Median (and centroid)
  ○ Altitude (and orthocenter)
	Review notes, handouts, and homework from this section.

5-5 Inequalities in Triangles • List angles and sides of a triangle in order from least to greatest • Determine whether a triangle can have three given side lengths • Describe the range of lengths for the third side of a triangle given the lengths of two sides.	Review notes, handouts, and homework from this section.

Review of previous units * <u>Review questions on previous tests from these</u>
• Translate, reflect, rotate, and dilate a figure on the coordinate plane.
• Identify similar polygons, write similarity statements, and find measures of corresponding sides and angles.
• Use indirect measurement and similar triangles to find the measure of corresponding sides.
• Apply the Pythagorean Theorem.
• Determine whether equations are parallel lines or perpendicular lines (given standard form, solve for slope-intercept form)
• Find a counterexample to prove a conditional false.
• Evaluate if a statement is a good definition.
• Use all of the following to find angle measures:
  ○ Supplementary angles, Complementary angles
  ○ Angle Bisector
  ○ Vertical angles, Linear Pairs
  ○ Corresponding, Alternate Interior, Alternate Exterior, Same-Side Interior, Same-Side Exterior, Parallel lines and Perpendicular lines
  ○ Triangle Angle Sum and Exterior Angle Sum Theorems
  ○ Polygon Angle Sum and Exterior Angle Sum Theorems
	<u>textbook sections</u>:
	9-1 through 9-6
	7-2
	
	7-3
	8-1
	3-6, 3-7
	
	1-1, 2-1
	2-2
	
	1-6
	1-7
	2-5
	3-1, 3-2, 3-3
	
	3-4
	3-5