

*What I learned in Geometry Class this Year.*

	Concept (formula if needed)	Explain in your own words. (What do I understand about this geometric concept?)	Demonstrate the concept. Example or problem
1	Tools for geometry ( segments, angles, perpendicular bisectors, angle bisector, parallel lines, slopes of parallel and perpendicular lines )		
2	Area of regular polygons.		
3	Four centers of a triangle. (Orthocenter, inceter, circumcenter and centroid )		
4	Triangle inequality		
5	Special right triangles		
6	Trigonometric Ratios (Sine, cosine and tangent)		
7	Transformations (dilation, translation,reflection, tessellations, rotation and glide reflection )		
8	Surface area of polyhedrons (Lateral and total)		
9	Volume of polyhedrons		
10	Effect of dimensional changes using scale factor. ( 1-D, 2-D and 3-D)		
11	Angles on a circle.		

12	Segments on a circle.		
13	Pythagorean Theorem.		
14	Similar triangles		
15	Inductive and deductive reasoning		
16	Properties of regular hexagon		
17	Geometric probability		
18			

DIRECTIONS: This project will be done individually .You will be graded on completeness, correctness and neatness.

Your final Geometry project is a summary of 18 ideas taken from Discovery Geometry textbook and other resources.

You will identify the unit, show and example of how problem using this topic is solved, and then illustrate your topic using an example.

You ***must*** submit your project on the due date May 11, 2015 before 4PM.  
Create a power point presentation or excel file.

Total value of this project: 20% of your final exam. (This is **part one** of your final exam)