

Geometry Construction Project

This Construction Project gives you the opportunity to apply your skills and knowledge of the use of constructions. Select and complete one of the two project options listed below. Your project may be evaluated by other Geometry students as well as by me. The last day to submit your completed project will be Tuesday, October 2, 2012. No Late work will be accepted.

Option # 1

Just as you see Billboards on the freeway on a poster board (11" x 17" minimum and desired but no bigger than 22"x28"), use each of the constructions listed below in a drawing of your own creation. All constructions must be labeled. All construction marks must be visible. All constructions must be an integral part of the drawing concept (not simply placed on the drawing). The drawing you create must be artistically colored.

Option # 2

Just as JC Penney and LL Bean have catalogs to display their merchandise, you will design a catalog incorporating the constructions listed below. Your catalog will be in the same format as other catalogs. Do some research: catalogs usually feature appealing, full color pictures of their merchandise (label each required construction and include the construction marks), product names, short but detailed descriptions of their products, catalog numbers for ordering, prices for each item and grouped by style and function. When you price your constructions, think of them in term of usefulness and difficulty.

List of Minimally Required Constructions:

Congruent Segments	Acute Angle	Linear Pair
Congruent angles	Obtuse Angle	Supplementary angles
Angle Bisector	Right Angle	Complementary angles
Segment Bisector	Vertical Angles	

Things to keep in mind...

No computer aided constructions will be accepted

No late work will be accepted

Construction marks must be clearly visible

This project is worth 45 points and will be judged on:

- Completeness (30 points)
 - Each item included
 - Visible construction marks for each item
- Originality and artistic merit (5 points)
 - Compared to peer contributions
 - Average presentation awarded 3 points
- Neatness (5 points)
- Accuracy (5 points)

Constructions Project – Grading Rubric

Name: _____

Completeness: 2 points for each complete basic construction. Three points for each construction incorporated as an integral design element of the poster or catalog. For the construction to be considered complete, it must display the appropriate construction marks and be clearly labeled.

Congruent Segments _____

Acute Angle _____

Linear Pair _____

Congruent angles _____

Obtuse Angle _____

Supplementary angles _____

Angle Bisector _____

Right Angle _____

Complementary angles _____

Segment Bisector _____

Vertical Angles _____

_____ Out of 30 points

Originality & Artistic Merit - In comparison to the other projects presented, how creative and original is the your finished product? (3 points will reflect the average presentation.)

_____ Out of 5 points

Neatness - How neat are the constructions...can you see the arcs without them overpowering the theme of the poster or, if the finished product is a catalog, are the constructions neat enough to understand what was done and is the writing neat?

_____ Out of 5 points (1/2 pt per construction)

Accuracy - Are the constructions accurate?

_____ Out of 5 points (1/2 pt per construction)

PROJECT GRADE – TOTAL OF ALL POINTS

_____ Out of 45 points