Geometry Construction Assessment 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. Each day you will leave your project in the classroom. All work will be completed **IN CLASS/during 8ᵗʰ period/before school.** Your completed project is **due Friday, December 20, 2019**, unless you are leaving early for winter break. This **must be** turned in **before** you leave. **No Late work will be accepted.**

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 # 1 – Product Design
Design your own product. (ex. Shoes, coffee cup, toy, vehicle, tool, sports equipment) After coming up with a product you want to design, think of where you could incorporate the required constructions from the list below.

Option # 2 – Graphic Design
Think of an object you could design or redesign. You could design a logo, an album cover, a food label, an app, etc. After coming up with the object you want to design, think of where you could incorporate the required constructions from the list below.

List of Required Constructions:
Congruent Segments
Congruent Angles
Angle Bisector
Perpendicular Bisector
Parallel Lines
Isosceles Triangle
Square
Triangle with a Circumscribed Circle
Triangle with an Inscribed Circle
Pick 1 from (Equilateral Triangle, Hexagon, Octagon)

These 10 constructions must be separate from one another. *For example, the parallel lines construction and copying an angle have to be in two separate parts of the design.*

Things to keep in mind…
- **No** computer aided constructions will be accepted
- **No** late work will be accepted
- **Construction marks must be clearly visible and all constructions labeled**
- This project is an assessment grade and is worth 40 points. It will be judged on:

    o **Completeness** (30 points)
    o **Originality** and **artistic** merit (5 points)
    o **Neatness** (5 points)

Constructions Assessment Project – Grading Rubric

Name: _____

Completeness: 3 points for each complete basic construction. For the construction to be considered complete, **it must display the appropriate construction marks and be clearly labeled.**
These 10 constructions MUST BE SEPARATE from one another.

Congruent Segments _____

Congruent Angles _____

Angle Bisector _____

Perpendicular Bisector _____

Parallel Lines _____

Isosceles Triangle _____

Square _____

Triangle with an Inscribed Circle _____

Triangle with a Circumscribed Circle _____

Pick 1 of the following 3 options:

1) Equilateral Triangle
2) Hexagon
3) Octagon   _____

_____**Out of 30 points**

Originality & Artistic Merit- In comparison to the other projects, how creative and original is your finished product?

_____**Out of 5 points**

Neatness- How neat is your work…can you see the construction arcs without them overpowering the theme of the poster or are the constructions neat enough to understand what was done and is the writing neat and legible?

_____**Out of 5 points**

PROJECT GRADE- TOTAL OF ALL POINTS   _____**Out of 40 points**