

Geometry Project
Chapters 1 – 4

Name: _____

Period: _____

Geome-TREE Ornaments

Directions:

1. Create a geometric tree ornament. Make sure that it is:
 - a. aesthetically pleasing: nice to look at, colored and/or decorated, etc.
 - b. well constructed: neat, sharp, no tape or globs of glue showing
 - c. original: not the same as your friend's or classmate's
 - d. fitted with a hanging apparatus: loop of string or ornament hook
 - e. your own creation, not store bought.
 - f. the correct size; does not exceed 5" X 5" X 5".

You may use any materials, but remember they will be hanging over your heads, so keep the ornament light in weight!

2. Create 10 true mathematical statements about the geometry of your ornament. Make sure that the statements are:
 - a. true
 - b. varied in content: not repetitive
 - c. neatly written or typed
 - d. written using accurate notation and language.
3. Write a half-page reflection about that includes:
 - a. a narrative about how all of these concepts exist in your project
 - b. two things that you liked about the project
 - c. one thing you would change about the project
4. Your completed project will be due no later than: **December 18, 2012**. Points will be deducted for turning in your project late.
5. You may earn up to 5 points extra credit by writing 5 additional statements about the geometry of your ornament. The same rules apply as in #2 above.

YOU MAY NOT MAKE A PRESENT FOR YOUR ORNAMENT BECAUSE THIS IS MY EXAMPLE! ☺

Examples of good mathematical statements:

- ❖ Plane ABC is perpendicular to plane CDE .
- ❖ GH is skew to EF .
- ❖ $GH \parallel AD \parallel BC$ and $HI \parallel DE \parallel CF$.
- ❖ Figures $ABCD$, $GADH$, $HDIE$, $DEFC$ are rectangles.
- ❖ $BJ \cong KC$, $CL \cong FM$
- ❖ Points A , D , B , J , K , and C are coplanar.

