THOR's GEOMETRY SCALE FACTOR PROJECT

OBJECTIVE : To enlarge to scale an object which fits in the palm of your hand.

Suggested ideas: remote control, band-aid, tea bags, CD, Q-tips, candy, tape cassette, chips bag, soap, food box, clock, matches, paper clip, etc. (or anything else you can find that is 3-dimensional)

Suggested materials:

cardboard	foil	styrofoam
tissue paper	plastic wrap	wood

REQUIREMENTS :

A) Choose an object that will fit in the palm of your hand and get teacher approval.
B) Choose a ratio for enlargement (between 4 and 20 times the size of the object)
C) In a four page report, write up the following:
- ***Page 1*** : Provide a sketch of the original object with its measurements.
  - The sketch can be computer drawn, if you know how to do it.
- ***Page 2*** : Tell the ratio of enlargement and show/explain the steps involved in calculating the enlarged values.
- ***Page 3*** : Provide a sketch of the enlarged object with its new measurements.
- ***Page 4*** : Write a results/evaluation section in which you answer all three of the following questions:
  1) How much time did you spend on the project?
  2) How difficult was it to actually enlarge your object?
  3) What are the pros and cons of this project?

D) Create a model of your object using the enlarged values.
E) Hand in your report, the original object, and the enlarged model.

DUE DATES : (Project will be officially assigned Thursday, January 23rd)

- Tuesday, February 4th : Chosen object approved by teacher. Turn in notecard with description of object.
- Tuesday, March 18th : Pages 1 - 4, original object, and enlarged model due.

******2nd and 4th periods : your due dates are Wednesday, February 5th and Wednesday, March 19th, respectively.***