**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Updated 2017

**This part is due on: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TIERS B/C**

**Creature Feature: Scale**

**Assignment 2** (Remember you may use a calculator, but must show your proportions and equations!)

1. Choose a scale factor for your creature so it will fit on the graph paper you have been given. Your scale factor cannot use “boxes” of graph paper. Part of this assignment is to fit your model on the graph paper, so you may have to try a few scales to find the one that will best fit your model on the graph paper. You may **not** use a scale factor of ½” = 1”.
2. Write the scale factor on your graph paper. Remember this will be your scale factor for all the assignments.
3. Scale two dimensions of each shape (length and width), using your scale from above. You will hand in your scale calculations (proportions) on the worksheet provided.
4. Use your scaled measurements to draw your creature on the paper accurately. Use inches. Be sure to draw your scale drawing as your creature looks. Your three dimensional shapes will be polygons on your graph paper.
5. Label the polygons on your drawing (like “rectangle”). You should not label them on the actual creature.
6. Take a photo of your graph paper and upload to a slide! Label your shapes again with arrows. Record your highlights and hardships.



**RUBRIC: ASSIGNMENT 2: 25 POINTS**

**Check off each step as you complete it.**

\_\_\_\_\_\_Scale Factor determined: Sensible and put on your scale calculation sheet and on your graph paper. Did not use “boxes” as part of your scale. (3 pts)

\_\_\_\_\_\_Proportions used in the calculations to determine the size of the figures on your graph paper. (2 pts)

\_\_\_\_\_\_Calculations recorded on scale calculation sheet, using the proportions and your scale factor. (8 pts)

\_\_\_\_\_\_ Drawing matches scaled measurements. (4 pts)

\_\_\_\_\_\_ Slide (4 pts)

\_\_\_\_\_\_ Neatness (2 pts)

\_\_\_\_\_\_ Creativity, effort (2 pts)

CALCULATIONS:

ASSIGNMENT # 2

Scale factor for my project will be:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (write it on your graph paper too)

|  |  |
| --- | --- |
| Shape # 1 is a:  \_\_\_\_\_\_\_\_\_\_\_ 3 dimensional  \_\_\_\_\_\_\_\_\_\_\_ on drawing  Dimensions of the actual shape:  Length:  Width:  Scale calculations (2 proportions below for length and width): | Shape # 2 is a:  \_\_\_\_\_\_\_\_\_\_\_ 3 dimensional  \_\_\_\_\_\_\_\_\_\_\_ on drawing  Dimensions of the actual shape:  Length:  Width:  Scale calculations (2 proportions below for length and width): |
| Shape # 3 is a:  \_\_\_\_\_\_\_\_\_\_\_ 3 dimensional  \_\_\_\_\_\_\_\_\_\_\_ on drawing  Dimensions of the actual shape:  Length:  Width:  Scale calculations (2 proportions below for length and width): | Shape # 4 is a:  \_\_\_\_\_\_\_\_\_\_\_ 3 dimensional  \_\_\_\_\_\_\_\_\_\_\_ on drawing  Dimensions of the actual shape:  Length:  Width:  Scale calculations (2 proportions below for length and width): |