

# Engineering Class

## Cardboard boat scale model

Names \_\_\_\_\_  
\_\_\_\_\_  
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There are six groups in this class and each group should have one of these direction sheets.

Process;

1. On card stock very accurately draw a 1/10 scale model of your boat
2. Since the max size is 2'x3'x6' (24 inches x 36 inches x 72 inches) your models should no larger than 2.4 inches x 3.6 inches x 7.2 inches
3. Cut out and tape up your model. Remember your final boat will be an exact full scale of this model.
4. Calculate the scale mass needed to load test your model (1/10 of your pilots weight).
5. A penny weighs 2.5 grams. Do the conversions to calculate how many pennies will be necessary to load. (one pound = 453.6 grams)
6. Do all your calculations on this sheet.