

1/10/15 =

**Testing Procedures:**

1. Bridge will be weighed and measured for compliance with specifications.
2. Loading block will be put in place in the center of the bridge.
3. Bridge will be placed between 2 tables spaced 10 inches apart.
4. Load will be applied by Ms. Keith slowly until I have achieved bridge collapse.

**Data Sheet**

**(Must be completed on the day of bridge test)**

**Grams**

**Ounces (Round to nearest 10<sup>th</sup>)**

Weight of Bridge

\_\_\_\_\_

Weight Held!! \_\_\_\_\_ (Including weight of loading apparatus)

Calculate Structural Effectiveness Ratio. Include units in your answers.

Structural Effectiveness =  $\frac{\text{Weight Held (lbs)}}{\text{Weight of Bridge (oz.)}}$  Divide and round to nearest 10<sup>th</sup> to find weight carried per ounce.

Structural Effectiveness = \_\_\_\_\_