

Beam Bridge Challenge

Supplies: 1 piece of copy paper, a ruler, 2 equal stacks of books and some weights like pennies, legos, washers, etc.

Procedure:

1. Use the ruler to set up book supports 8 inches apart.
2. Place paper between the supports
3. Add weights slowly one at a time
4. Count the weights as you add them
5. When the bridge collapses, record the number of weights the bridge held right before the collapse
6. Record the number of weights and the area of the bridge. Area is found by multiplying how long the paper is by how wide the paper is. Use your ruler to measure the size of the paper you used for the bridge.

Trial 1 ~

Draw a picture of your bridge just before it fell or insert a photograph

Area of the Bridge:

Number of Weights Held:

Trial 2 ~

Draw a picture of your bridge just before it fell or insert a photograph

Area of the Bridge:

Number of Weights Held: