Lamination: No more than two balsa wood sticks may be laminated together, and there must be a minimum space equal to the width of one stick (3/32") between lamination beams which run parallel to each other. Beams which meet in a joint, or which are in contact when crossing, will not be considered lamination, provided that the meeting or crossings are deemed incidental to the rational design, and not intended to add structural integrity.

Testing:

Step 1: A simulated paved roadway, 3cm in width cut from a manila folder, will be placed on the freestanding bridge. A 1 kg mass (2.2 Ibs.) must be able to roll across the bridge. Any bridge not able to withstand this test will be disqualifed from further testing competition.
Step 2: Load will be applied to a **3cm X 10 cm** test block center on the bridge. No side supports will be used (This is a relatively new limitation if you have spoken with past students). Bridges will be tested manually in class using the &quotCrusher" apparatus. Bridges will be tested to failure unless otherwise requested after grade requirement is met.

Credit: Credit, due date, and associated concerns for physics students will be discussed in class.

Prizes: Prizes have been awarded using two different criteria in the past. This year will be one of the following methods:

#1 - prizes to the three top bridges by highest weight withstood of all classes. OR

#2 - One prize per class.

Materials Again: There are two ways materials may be obtained:

#1 - Wold's Hobbies on Village Parkway in Dublin

#2 - Purchase the materials from me for a little bit more.
Prices are discussed in class but range from $4 to $6.

SEE MR. NEWBERY OR MR. GIBBONS IF YOU HAVE ANY QUESTIONS