

Bridge Building Designs:

Bridges should be constructed to the according to the following guidelines.

- Only soda straws and tape may serve as construction materials
 - 30 straws
 - 5' of masking tape
- The bridge shall be of these dimensions:
 - Length – at least 30cm no more than 40cm.
 - Width – at least 5cm no more than 8cm
 - Height – no taller than 20cm
- The bridge will span a distance of 30cm.
- The bridge should accommodate two 5cm² loading plates.

Bridge designs will be assessed according to the following:

- Design done according to rules on page 8 of student handout: _____ 10pts
- Design includes the dimensions of the bridge. _____ 5pts
- Design is drawn to actual size of the bridge. _____ 10pts
- Design includes the number of straws used. _____ 5pts
- Design is neat, organized and easily deciphered. _____ 10pts

Actual construction will be assessed according to the following:

- Constructed according to rules on page 8 of handout _____ 20pts.
- Accommodates 2 loading plates. _____ 10pts
- Constructed of proper materials. _____ 10pts
- Bridge supports a mass of 1kg. _____ 15pts.
- Bridge construction is not sloppily done _____ 15pts