

Design Brief

Paper Tower

Background:

Light weight towers could be the new modern building technique of the future. These towers soar high in the sky and are made of light weight materials.

Problem:

Construct a tower that will stand on its own for a minimum of 10 seconds and not fall over.

Parameters:

- Students will work alone
- Materials to be used in the construction:
 - 1 piece of 8 1/2" x 11" bond paper
 - 1 piece of 3/4 " masking tape 12" long
- Tools to be used:
 - Scissors
 - Rulers
 - Paper cutter
 - Knife
 - Pencil
- Structure must be free standing. Tape can not be used to secure the tower to the table or surface.

Evaluation:

Effective use of materials. The height of the tower will be graded after all towers (both quarter class periods) have been graded. The top 25% will receive an A. The second 25% will receive a B. The remaining 50%, providing they stand, will receive a C or D. The tower must stand for the minimum of 10 seconds without falling to receive the passing grade - 6 to 10 points total and 1 bonus point for top 3 towers.