

John Bocksnick

Hands On Problem
Spontaneous Fair 2011

Merry Go Round

Given:

- 5 soda straws
- 5 paper clips
- 1 index card
- 1 4 inch by 4 inch square of aluminum foil
- 2 rubber bands (small)
- 1 6 inch piece of masking tape
- 2 squares of toilet paper

Task:

Using only the materials provided create a Merry Go Round that is capable of supporting itself and will complete a minimum of 2 complete revolutions without human assistance.

You have 8 minutes in which to construct and successfully demonstrate the function of your Merry Go Round.

You will be judged on team work (0-10 points) and successful function of the Merry Go Round (2 or more revolutions = 10 points, 1 - 2 revolutions = 5 points, less than 1 revolution = 0 points).

Begin.

FOR JUDGES ONLY: The teams need not use all the materials provided. Scoring for team work should be awarded per the following scale:

Team takes stock of their resources, including beyond what is given = 0 or 2 points

Team discusses the problem and solutions prior to manipulating parts = 0 or 2 points

Each team member is given a chance to contribute ideas to the problem solving = 0 or 2 points

All team members listen to the others ideas = 0 or 2 points

All team members maintain contributory attitude = 0 or 2 points.