

The Great Mouse-Trap Powered Car

Objective:

Build a vehicle powered solely by the energy of one standard size mouse-trap (which will be provided to each team before the competition) that will travel the greatest linear distance. Launching a ball or other devices to propel the mouse trap is prohibited.

Regulations:

1. The device must be powered by a single mouse-trap which will be provided
2. The mouse trap can not be physically altered except for the following:
 - a. 4 holes can be drilled only to mount the mouse trap to the frame
 - b. a mouse trap's spring may be removed only to adjust the length of its lever arm
3. The device cannot have any potential or kinetic energy at the start other than what can be stored in the spring itself. Vehicle cannot be push started
4. The spring may not be heat treated or altered in anyway
5. Vehicles must be self-starting
6. Spring cannot be wound more that its normal travel distance
7. The vehicle must steer itself. Only the displacement will be measured in the contest
8. The judges have the final say to any additional items that were used

Contest:

1. Each car must stop at the pre-race tech inspection after check-in and before the start of the competition
2. Each group will be given three attempts.
3. Any ties will go to a run off to determine a winner