

MOUSETRAP CAR CHALLENGE

THIS IS A CHAPTER EVENT AND SHOULD BE ENTERED IN THE CLUB NAME (ex. Smith High School TSA).

Enter online at www.GeorgiaNationalFair.com
(<http://www.georgianationalfair.com/youth-educational-exhibits/>) by September 13, 2017.

DIVISION 40701 MOUSETRAP CAR CHALLENGE

CLASS

01 Mousetrap Car Challenge

OBJECTIVE: The objective is to build a vehicle that is powered solely by a standard-sized mouse trap that will travel and stop closest to a finish line located 18 feet from the start line in the shortest amount of time.

Entries are limited to one per chapter. (There can be up to 4 members on the team)

PROCEDURES: Students should submit the completed car during check-in at Reaves Arena at the Georgia national Fair. During turn in, you will sign up for a time to return and run your car.

A copy of the online registration confirmation will be required to check-in for competition.

CONTEST RULES:

1. **All exhibitors are required to read and abide by the Georgia National Fair General Rules and Regulations. PLEASE NOTE: IT IS YOUR RESPONSIBILITY TO READ AND UNDERSTAND THE RULES. If you have questions, you may certainly e-mail us at sprice@gatsa.org or contests@gnfa.com. Please help us prevent entry disqualifications.**

2. Students will comprise a team of up to 4 individuals to create a Mousetrap Car/Vehicle.

3. The vehicle MUST be powered by a single VICTOR brand mouse trap measuring: 1-3 inches x 3-7/8 inches. The mouse trap spring CANNOT BE ALTERED to add power in any way.

4. The vehicle may not start with additional potential and/or kinetic energy other than what is stored in the mouse trap spring. Vehicles MUST be self-starting. Rubber bands or any other elastic materials may not be used in the launch mechanism.

5. The vehicle must steer itself and may not receive a push in any direction in order to avoid a collision.

6. The vehicle must have 3 or 4 wheels that make contact with the race surface.

7. The timing of the vehicle will begin when any part of the vehicle passes over the start line and will end when the vehicle comes to rest.

8. The distance from the target will be measured from the point of the vehicle that first passed the start line to the finish line or target.

9. The overall dimensions of the Mousetrap Car cannot exceed 20" L x 10" W x 12" H. The measurement will be taken while car is in resting position.

TESTING:

The course will be smooth level floor and non-carpeted. The winner will be that vehicle that has obtained the lowest score any of the two attempts. Any ties will be decided by a single run off between the tied vehicles.

EVALUATION:

The scoring will be the total of the time in seconds added to the distance from the finish line in centimeters.

Score=time(s) + distance from finish line (cm). The lowest number is the best Car.