Honors Physics Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Mousetrap Car Project**

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| Category | Scoring |
| Working Days | 10pts: All members of the construction group need to be on task and productive in order to earn full credit for days of designing, building & testing. (5pts per day)**/10pts** |
| Final Blue Prints | 5pts: A single blueprint for the construction group must be made and submitted to the teacher for grading. It must be a nicely drawn out diagram of the mouse trap car, to scale, with correct dimensions for length, width and height. It must also show the propulsion method of the mouse trap on the blue prints. Should be made on ¼” graph paper.**/5pts** |
| Race Day Ready | 10pts: The car must be completely ready on race day! There is no adding glue, tape or anything else to the car to make it work better. Points will be removed if the car is not 100% complete.**/10pts** |
| Data Collection & Calculations | 5pts: All data for each of the trials is completed accurately with correct values and units. When calculating values to input into the table, all calculations and work is shown.**/5pts** |
| Velocity Competition | 10pts: Race length is 6.1 meters. The time it takes the car to complete is t...t<3 seconds 10 pts 4<t<5 seconds 8 pts3<t<4 seconds 9 pts t>5 seconds 7 pts**/10pts** |
| DistanceCompetition |  10pts: total distance traveled by car is d...d<6.1 meters 7 pts6.1 <d<10 meters 9 ptsd.10 meters 10 pts **/10pts** |