**The Mousetrap Car Analysis Report**

**Analise**

Answer the following questions completely (include formulas and/or calculations where appropriate). Your answers may be written below or typed and submitted on SEQTA. It must be a minimum of 300 words.

1. What are the two types of friction that affect the performance of your vehicle?  
    two types of friction that effects the vehicle are static and kinetic :)
2. What problems related to friction did you encounter and how did you solve them?  
    us didn’t move so we didn’t have any results for this
3. What factors did you consider deciding the number of wheels you chose in your design?
4. What kind of wheels did you use in each axle? What is the effect of using large or small wheels?  
    cd wheels 😊 2 at the back 1 at the front
5. Explain how Newton's first, second and third laws apply to the performance of your vehicle.  
    newtons first law an object in motion will stay in motion unless acted on by another force

newtons second law is force x mass = acceleration

Newtons 3rd law every reaction has an equal but opposite reaction

1. Discuss the effect of the length of the lever arm in the pulling force of your vehicle.  
      
   gives car more time to move?
2. Discuss the types of energy transformations that occur in your car.
3. List the energy types that are wasted in your car.

Heat

1. Discuss how you increased the efficiency of your vehicle (reduced the wasted output energy).