Mouse Trap Car Design Report

Lab Partners:				
1.	Explain the basic design features of your mousetrap vehicle. Include the length of the lever arm and other parameters over which you had control.			
2.	What major problems did you have (don't say "NONE!") and how did you solve them?			
3.	Estimate the total potential energy available from your mouse trap. This should be determined by an estimate of the average force at the end of your lever and the distance the end of the lever arm traveled. a. Length of lever b. Average force of lever c. Effective distance the end of the lever traveled d. Potential energy of mouse trap in Joules			

4.	Estimate the power of your car, based on the answer to #3.			
	a.	Total potential energy available		
	b.	Time force was applied to vehicle (coasting doesn't count)		
	c.	Power of car		
5.	Calcul	Calculate the average velocity of your vehicle		
	a.	Total distance traveled		
	b.	Total time of travel		
	c.	Average velocity		
6.	What	is the mass of your vehicle?		
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7.		me the maximum velocity of your vehicle is twice the average velocity. is the maximum kinetic energy of your vehicle?		
8.		e calculated potential energy and kinetic energy values to calculate the ncy of your vehicle.		

9.	Is the efficiency more than 100% or less that values might have contributed to this error (over 100%)? If it is less, where might you?	since we know efficiency cannot be	
10.	0. What would be the effect of adding extra w	eight to the car?	
11.	1. Describe the energy transformations in the	car.	
12.	2. What improvements would you make if you	a were to start again from scratch?	
Your group has 10 "Participation Points" per group member. It is up to you to decide how to divide them. Be realistic, be honest, be fair.			
Name	ePoints _		
Name	e Points _		
Name	e Points _		
Name _	e Points _		