	work and Kinetic/Potential Energy Calculations
Directions:	Work through each calculation and SHOW ALL WORK!
1. Wha	at are the units for work and kinetic/potential energy?
2. A 6-rock	kg rock is thrown with a velocity of 10m/s. What is the kinetic energy of the?
3. A 18 poter	a-kg cat climbs upwards 12 meters to sit on the roof of a house. How much notial energy does it possess while it sits enjoying the sunshine?
4. Deter	rmine the kinetic energy of a 1000-kg roller coaster car that is moving with a city of 20m/s?
5. If the then	roller coaster car in the above problem were moving with twice the velocity, what would the new kinetic energy be?
plane heigh	t is loaded with a brick and pulled at a constant speed along an inclined to the height of a seat-top. If the mass of the loaded cart is 3.0-kg and the t of the seat-top is 0.45 m, then what is the potential energy of the loaded t the height of the seat-top?
	above problem, the cart is pulled a distance of 20 m with a force of 30N. is the work being done?
8. A 37- object	kg object is lifted to a height of 3 m. What is the potential energy of the t?

9. In the above problem, what is the work being done if the objected was lifted 3m with a force of 40N?