Car and Ramp KE Inquiry

I. Pre - Lab:

Problem Question: What affects KE most: velocity or mass?

Independent Variable: ____________________________

Dependant Variable: ____________________________

Hypothesis: _________________________________

Procedure: Take a look at the equipment that is set up for this lab. Decide on a procedure that would help you collect data to determine if your hypothesis can be proven. *(Use the back of this sheet)*

II. Lab:

Procedure Approval: See Ms. S. to approve your procedure so that you may begin collecting data.

Data Table: Design a data table to record your results.

Calculations: Use DUFAS and be prepared to turn in.
III. Post Lab:

1. What happened to the KE of the car as the velocity of the car increased? (i.e. the ramp became steeper)

_________________________________________

_________________________________________

2. What happened to the KE of the car as mass of the car increased?

_________________________________________

3. Which had a greater effect on the KE of the car: mass or velocity?

_________________________________________

4. Explain WHY for #3’s answer.

_________________________________________

5. Attach your data table and DUFAS calculations.