

Name: _____

Block: _____

Mrs. Saladyga

Fall 05

Car and Ramp KE Inquiry

I. Pre - Lab:

Problem Question: What affects K_E 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.

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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.