

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:** \_\_\_\_\_

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**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)

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

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

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4. Explain WHY for #3's answer. \_\_\_\_\_

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5. Attach your data table and DUFAS calculations.