



## COLLISION EXPERIMENT DATA SHEET



NAME \_\_\_\_\_

**OBJECT:** To observe the effect of collision of objects of unequal masses.

**PROCEDURE:**

1. Obtain a sheet of aluminum foil.
2. Make it a rectangle about 15 cm by 8 cm.
3. Record its mass.
4. Make the foil into the shape of a closed container, i.e. car.
5. Obtain 2 or 3 red grapes and place them in the container.
6. Tightly close the container.
7. Write a short essay on a separate piece of paper about the "car" and the "people" (grapes) in it.
8. Your "car" will be in a collision as instructed by your teacher.
9. Clean up after the accident.
10. On the same paper as your essay, write the results of the collision.
11. Write a conclusion for this experiment.

**DATA:**

MASS OF CAR \_\_\_\_\_

MASS OF WEIGHT USED \_\_\_\_\_

RATIO OF WEIGHT/CAR \_\_\_\_\_

**CALCULATIONS:**

1. Find the velocity of the weight when it hit your car.
  
2. The mass of a train to a car is about 4000:1. How did your "car" compare to the mass of the weight?

**CONCLUSION:**

