Experiment 10: Conservation of Linear Momentum

Student Name: _____

Section Number: _____

PRELAB

PRE-LAB Instructions:

Print out this page. Feel free to refer to the lab Instructions and other materials, your physics textbook, other students, etc. to help you to ponder, understand, and work out answers to the following question(s). Show your work & answers in the space(s) provided.

PRE-LAB Questions

1) What constitutes "the system" whose momentum we are examining in this experiment to see if it is conserved?

2) Describe and name the different types of collision. In which are the linear momentum and kinetic energy conserved?

3) How will you achieve perfectly elastic collisions between the carts? Perfectly inelastic collisions?