Name:

Partner:

Physics 12 M. Lam

Elastic Collision Lab

Block:

video camera

Introduction

An elastic collision can be preformed with the magnetic bumpers of two Pasco carts. The purpose of this lab is to determine whether momentum and kinetic energy are conserved in an elastic collision.

Equipment

Below is a list of available equipment. Circle all equipment used.

low-friction track meter stick

Pasco carts (2)

stopwatch

tape

electronic balance

Apparatus

Draw and label a diagram of your apparatus.

Experimental Method Describe how your data is collected. Include any steps necessary to reduce experimental uncertainty.

Data

Record all measurements. If appropriate, organize your data in a table.

Analysis and Discussion

Describe how the data is used to determine whether momentum and kinetic energy are conserved in an elastic collision. Show an example for each type of calculation.

Identify and discuss a minimum of two sources of error. Put a star next to what you believe to be the most significant source of error.

Conclusion		
Momentum is	conserved/not conserved	_ in an elastic collision.
Kinetic energy is _	conserved/not conserved	in an elastic collision.