THE CONSERVATION OF MOMENTUM

**NAMR:** _____ **SECTION:** _____

Click the link, https://www.gigaphysics.com/momentum_lab.html to go to **Conservation of Momentum Virtual Lab.**

When the virtual lab opens, click **New Experiment** to ensure that you have reset your cart data before you do the experiment.

Follow the procedure discussed in the Webquest week 4 lesson 4.

PART I: INELASTIC COLLISION DATA TABLE
**Table 1**

| Mass of purple cart (kg) | Length of purple cart (m) | Mass of green cart (kg) | Length of purple cart (m) |
|---|---|---|---|
|  |  |  |  |

**Table 2**

|  | Elapsed time (s) | Length (m) | Velocity (m/s) |
|---|---|---|---|
| Purple cart before collision |  |  |  |
| Green cart before collision |  |  |  |
| Carts stuck together after collision |  |  |  |

**Table 3**

|  | Mass (kg) | Velocity (from table 2) | Momentum kg.m/s |
|---|---|---|---|
| Purple cart before collision |  |  |  |
| Green cart before collision |  |  |  |
| Carts stuck together after collision |  |  |  |

**Table 4**

|  | **Purple cart's momentum** | **Green cart's momentum** | **Total momentum** |
|---|---|---|---|
| **Before Collision** |  |  |  |
| **After Collision** |  |  |  |

_____
note: *screenshot your data table, do not click FINISH, no score will be generated. . .*