## Experiment 7 ~ Conservation of Linear Momentum

#### Purpose:

The purpose of this experiment is to reproduce a simple experiment demonstrating the Conservation of Linear Momentum.

#### Theory:

The momentum p of an object is the product of its mass and its velocity:

$$p = mv$$

Momentum is a vector quantity, since it comes from velocity (a vector) multiplied by mass (a scalar). The law of conservation of momentum states that the total momentum of all bodies within an isolated system.

$$p_{total} = p_1 + p_2 + \dots$$

is constant. That is, if the total momentum has some initial value  $p_i$ , then, whatever happens later, the final value of the total momentum  $p_i$  must equal the initial value. So we can write the law of conservation of momentum like this:

$$\mathbf{p}_{\mathbf{f}} = \mathbf{p}_{\mathbf{i}}$$

Conservation of momentum is usually studied in problems that involve collisions. In this experiment, you'll look at collisions between two gliders on an air track. You will measure the final momentum of an initially stationary glider, struck by another glider which is initially moving. You'll do this experiment for two different types of collisions, elastic and inelastic. Elastic collisions are ones where kinetic energy is conserved (the objects bounce off each other without losing any energy). Inelastic collisions (e.g., if the objects get stuck together) do not conserve kinetic energy. The kinetic energy of an object is defined as

$$K = \frac{1}{2}mv^2$$

where m is the object's mass and v is its velocity. Kinetic energy is not a vector: it's a scalar, and its units are Joules (J).

# **Conservation Of Linear Momentum Lab Report**

**Rachel S Tattersall** 

# **Conservation Of Linear Momentum Lab Report:**

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The Enigmatic Realm of Conservation Of Linear Momentum Lab Report: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Conservation Of Linear Momentum Lab Report** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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