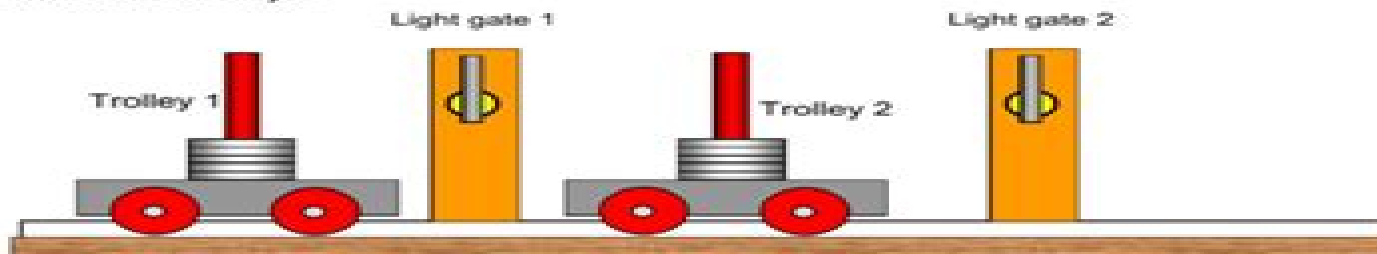


## CONSERVATION OF LINEAR MOMENTUM EXPERIMENT

### AIM:

The aim of this experiment is to test the law of conservation of momentum by the collision between two trolleys.



### YOU WILL NEED:

Two trolleys, plastic runway, support board, two light gates, 2 QED units, leads, QED power unit, washers

### WHAT TO DO:

Perform the experiment in two parts:

- (a) inelastic collision
- (b) elastic collision

For both parts:

Set up the apparatus as shown in the diagram. Compensate the runway for friction by giving one trolley a small push and checking that it runs down the runway with constant speed.

(a) elastic collision

Mount a small magnet on each trolley so that they repel each other when pushed towards each other.

Each light gate must be connected to a different QED unit so that they can measure the speeds of the separate trolleys.

Place trolley 2 between the two light gates and push trolley 1 towards it. Arrange the masses of the two trolleys that they both move from left to right after the collision. Set the first QED unit to record the speed of trolley 1 before the collision and second QED to record the speeds of trolley 1 and 3 after the collision.

Record the total masses of both trolleys.

Repeat the experiment for a series of differing initial speeds and trolley masses.

(b) inelastic collision

Mount a piece of 'velcro' on each trolley so that the trolleys stick together when they collide. In this experiment only one QED unit is needed since there are only two speeds that need to be measured.

Set the QED unit to record the speed of trolley 1 before collision and that of the two trolleys after collision.

Repeat the experiment for differing initial speeds and trolley masses.  
Use your results to test the law of conservation of momentum.

# Conservation Of Momentum Experiment Answers

**B Lingard**



## **Conservation Of Momentum Experiment Answers:**

## The Enigmatic Realm of **Conservation Of Momentum Experiment Answers**: 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 Momentum Experiment Answers** a literary masterpiece penned by 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's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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