

### Collision Lab- Conservation of Momentum (Newton's 3rd Law)

Directions: Go to the website <http://phet.colorado.edu/en/simulation/collision-lab>

Make sure the 1-d box is checked. Click on "More Data" to expand the data table.

#### Part 1

##### Scenario #1:

##### 100% Elastic collision between balls of equal mass

1. Make a hypothesis about initial and final momentums before using the sim. If initial momentums will be the same, then the final momentums will be the same. **I think the initial and final momentums will be the same.**
2. Complete the following data tables for each ball before and after each trial. Perform 2 trials with 2 different sets of balls of **equal** masses.

##### Trial 1 Before Collision

Ball	Mass (kg)	Velocity (m/s)	Momentum (kg*m/s)
1	.50	1.00	.50
2	.50	-.50	-.25
Total			.25

##### Trial 1 After Collision

Ball	Mass (kg)	Velocity (m/s)	Momentum (kg*m/s)
1	.50	-.50	-.25
2	.50	1.00	.50
Total			.25

##### Trial 2 Before Collision

Ball	Mass (kg)	Velocity (m/s)	Momentum (kg*m/s)
1	1.00	1	1
2	1.00	-.5	-.5
Total			.5

##### Trial 2 After Collision

Ball	Mass (kg)	Velocity (m/s)	Momentum (kg*m/s)
1	1.00	-.5	-.5
2	1.00	1	1
Total			.5

# Collisions And Conservation Of Momentum Lab Answers

**JL Elias**



## **Collisions And Conservation Of Momentum Lab Answers:**

Decoding **Collisions And Conservation Of Momentum Lab Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Collisions And Conservation Of Momentum Lab Answers**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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