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# Chapter 9 Linear Momentum And Collisions

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## **Chapter 9 Linear Momentum And**

9-1 Momentum and Its  
Relation to Force. Example  
9-2: Washing a car: momentum

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change and force. Water leaves a hose at a rate of  $1.5 \text{ kg/s}$  with a speed of  $20 \text{ m/s}$  and is aimed at the side of a car, which stops it.

(That is, we ignore any splashing back.) What is the force exerted by the water

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on the car? Figure 9-2.

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Amplified Rebound Height Two  
small rubber balls are

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dropped from rest at a height  $h$  above a hard floor. When the balls are released, the lighter ball (with mass  $m$ ) is directly above the heavier ball (with mass  $M$ ).

**Mastering Physics Solutions**

*Page 12/42*

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9.1 Linear Momentum 9.2  
Analysis Model: Isolated

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System (Momentum) 9.3

Analysis Model: Nonisolated

System (Momentum) 9.4

Collisions in One Dimension

9.5 Collisions in Two

Dimensions 9.6 The Center of

Mass 9.7 Systems of Many

Particles 9.8 Deformable



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Systems 9.9 Rocket  
Propulsion

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Chapter 9 - Center of mass  
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center of mass - System of particles / - Solid body II.  
Newton's Second law for a system of particles III.  
Linear Momentum - System of particles / - Conservation  
IV. Collision and impulse - Single collision / - Series

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of collisions V. Momentum and kinetic energy in collisions VI.

## **Chapter 9 - Center of mass and linear momentum**

Units of Chapter 9 •

Momentum and Its Relation to

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Force ... This is the law of conservation of linear momentum: when the net external force on a system of objects is zero, the total momentum of the system remains constant.

Equivalently, the total

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momentum of an isolated system

## **Chapter 9 Linear Momentum**

9.5 Linear Momentum of a System of Particles The linear momentum of a system of particles is equal to the

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product of the total mass  $M$  of the system and the velocity of the center of mass.

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impulse-momentum theorem.  
angular momentum.

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## **Chapter 9 -- Momentum**

Chapter 9. Momentum and

Collisions Level : AP

Physics Date : 9.1 Linear

Momentum The linear momentum

of a particle of mass  $m$

moving with a velocity  $v$  is

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defined as  $p \equiv mv$  [kg·m/s]

9.3 Nonisolated System:

Impulse and Momentum p.252 -

If you apply an external force over a certain period of time on a moving point object (=particle),

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## **Chapter 9. Momentum and Collisions**

Momentum ties velocity and mass into one quantity. It might not be obvious why this is useful, but momentum has this cool property where the total amount of it never

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changes. This is called the conservation of momentum, and we can use it to analyze collisions and other interactions. Bam!

**Impacts and linear momentum  
| Physics | Science | Khan**

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## **Academy**

Chapter 9--Linear Momentum and Collisions Chapter 9--Linear Momentum and Collisions Student: \_\_\_\_\_ 1. A 2 000-kg truck traveling at a speed of 6.0 m/s makes a 90 turn in a time of 4.0 s

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and emerges from this turn with a speed of  $4.0 \text{ m/s}$ .  
What is the magnitude of the average resultant force on the truck during this turn?

**Chapter 9--Linear Momentum -**  
**Chapter 9-Linear Momentum**

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**and . . .**

Since 128 problems in chapter 9: Center of Mass and Linear Momentum have been answered, more than 41935 students have viewed full step-by-step solutions from this chapter. This



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expansive textbook survival guide covers the following chapters and their solutions. Chapter 9: Center of Mass and Linear Momentum includes 128 full step-by-step solutions.

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## **Solutions for Chapter 9: Center of Mass and Linear Momentum**

9-1 Linear Momentum Momentum is a vector; its direction is the same as the direction of the velocity.

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Chapter 9 - Center of mass and linear momentum I. The center of mass - System of particles / - Solid body II. Newton's Second law for a system of particles III.

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Linear Momentum - System of particles / - Conservation  
IV. Collision and impulse - Single collision / - Series of collisions V. Momentum and kinetic energy in collisions VI.

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## **Chapter 9 - Center of mass and linear momentum**

This physics video tutorial explains the concept of impulse and linear momentum in one and two dimensions. It covers the law of conservation of momentum for

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collisions and conservation of kinetic ...

**Impulse - Linear Momentum, Conservation, Inelastic & Elastic Collisions, Force - Physics Problems**

Chapter 9. Impulse and

*Page 38/42*

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Momentum Explosions and collisions obey some surprisingly simple laws that make problem solving easier when comparing the situation before and after an interaction. Chapter Goal: To introduce the ideas

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of impulse and momentum and to learn a new problem-solving strategy based on conservation laws.

## **Chapter 9. Impulse and Momentum – GSU P&A**

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Collisions 2B Tube.

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Conservation of Momentum,  
Center of Mass - Duration:  
52:18. Lectures by Walter  
Lewin.

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