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to Impulse \u0026 Momentum -  
Physics Impulse - Linear Momentum,  
Conservation, Inelastic \u0026 Elastic  
Collisions, Force - Physics Problems  
Momentum and Impulse Explained~~

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Chapter 11: Impulse-Momentum  
Theorem What Is Momentum? How To  
Calculate Momentum, With Examples  
~~GCSE Physics - Momentum Part 1 of  
2 - Conservation of Momentum  
Principle #59 Changes in Momentum,  
Impact Forces, \u0026 Impulse |~~

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GCSE Science | Physics | Get To  
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The Impulse-Momentum Theorem [IB  
Physics SL + HL Topic 2 Revision] 2.8  
Momentum and impulse What Are~~



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Momentum and Impulse? | Physics in Motion

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BMCC Physics Chapter 7 Momentum and Impulse

~~6.1 Momentum and Impulse~~ What is Impulse? What is Momentum? Impulse Momentum

Theorem | Momentum and Impulse

Physics 15.1 Momentum and Impulse

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Impulse and Momentum Part A F.Sc

Part-1 { Physics} Chap#3

Lec#7{Momentum And Impulse}

Chapter 7 Momentum And Impulse

7.1 The Impulse-Momentum Theorem.

$\int F \, dt$  & 7.1 The Impulse-

Momentum Theorem. The linear

momentum of an object is the product

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of the object's mass times its velocity.  
 $p = v \cdot m$ . Momentum is a vector  
quantity and has the same direction as  
the velocity. kilogram meter/second (kg  
m/s) DEFINITION OF LINEAR  
MOMENTUM.

Chapter 7 Impulse and Momentum

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## Momentum And Impulse

Momentum and Impulse. Multiply both sides of Newton's second law by the time interval over which the force acts: The left side of the equation is impulse, the (average) force acting on an object multiplied by the time interval over which the force acts. How a force changes the motion of an

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object depends on both the size of the.

Chapter 7 Momentum and Impulse

Chapter 7 Impulse and Momentum 1.

1) Linear momentum ...  $F \Delta t = \Delta p$  p 4.

Impulse-momentum theorem Impulse

Change in momentum!  $J = \Delta p = F \Delta t$  p 5.

C&J 7.9 A space probe is traveling in

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outer space with a momentum that has a magnitude of  $7.5 \times 10^7 \text{ kg}\cdot\text{m/s}$ . A retrorocket is fired to slow down the probe. It applies a force

Chapter 7 Impulse and Momentum -  
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Chapter 7 □ Momentum and Impulse

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## Momentum And Impulse

□ A strong force acting for a very brief time producing a rapid acceleration that quickly changes the ball's velocity from downward to upward. □ The impulse acting on an object produces a change in momentum of the object that is equal in both magnitude and direction to the impulse □ Momentum

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Ian Page. 9:51. Chapter 7, Example  
#1 - Ball thrown at a brick wall by Ian  
Page. 4:23. Chapter 7, Example #2 -



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question on ...

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in this set (10) D. N·sec. 1. One form  
of the proper metric unit for  
momentum is A. Joule. B. Kg·m. C.

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kg·m/s<sup>2</sup> D. N·sec. B. Removing a shoe and throwing it away from the shore. 2. Suppose you are out on a ...

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Impulse Equation.  $\text{impulse} = f(\Delta)t$ .  
Units: N x s OR kg x m/s. The impulse

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## Momentum And Impulse

will be greater if the force is applied for a longer period of time. Impulse-Momentum Theorem.  $\text{mass} \times \text{change in velocity} = \text{force} \times \text{change in time}$ .

-Viewed as alternate version of Newton's Second Law. -Force changes velocity.

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momentum. a property of moving things; depends on how fast you are going and the amount of mass you have.  $\text{kg} \cdot \text{m/s}$ . momentum unit.

impulse. change in momentum, either the mass or velocity or both change.

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time. factor in changing momentum;  
how long a period of time a force acts.  
 $N \cdot s$ .

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Momentum is inertia in motion and  
impulse is the change in momentum.



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When does an object have large momentum?

Physics Chapter 7- Momentum.

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Linear momentum is a vector quantity that points in the same direction as the velocity. SI Unit of Linear Momentum:

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kilogram · meter/second = (kg · m/s)

$\Delta p = F \Delta t$ . Impulse, J. The impulse, J. of a force is the product of the average force and the time interval  $\Delta t$ .

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CHAPTER 7 Momentum Chapter  
Outline 7.1 MOMENTUM

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## Momentum And Impulse

AND IMPULSE 7.2 CONSERVATION OF MOMENTUM IN ONE DIMENSION

7.3 REFERENCES This chapter is about momentum and impulse. There are an amazing number of daily activities that involve momentum and impulse. To start an object moving when it is at rest, you must provide an

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C 7 Momentum - Nathan Sandberg  
Chapter 7 Momentum and Impulse  
What are Momentum and Impulse?  
Motion of a Bouncing Ball First part of  
motion is like falling object:  $g$ ,  $v$ ,  $d$   
Impact, then changes ... □ A free

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Impulse PowerPoint ...  
Chapter 7 Momentum . Conceptual  
Physics . Objectives: The student will

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## Momentum And Impulse

be able to:

- Define . momentum.
- Describe . impulse. and how it affects momentum
- Perform calculations of momentum and impulse
- State the law of conservation of momentum
- Distinguish between . elastic. and . inelastic collision.

### 7.1 Momentum .

Momentum is inertia in motion.

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Thermodynamics. 22 pages. Electric  
Circuits. 33 pages. The Behavior of  
Fluids. 21 pages. Newton's Laws  
Explaining Motion: Dynamics. 12  
pages

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Winthrop PHYS 101 - Chapter 7

Momentum and Impulse - GradeBuddy

Impulse  $\square$  In order to change the momentum of an object (say, golf ball), a force must be applied  $\square$  The time rate of change of momentum of an object is equal to the net force acting on it  $\square \square$

Gives an alternative statement of

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## Momentum And Impulse

Newton's second law ( $F = \frac{dp}{dt}$ ) is defined as the impulse. Impulse is a vector quantity, the direction is the same as the direction of the force.  $\Delta p = F \Delta t$  or  $\Delta v = \frac{F}{m} \Delta t$  (if net force is constant).

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