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Chapter 11: Impulse-Momentum
Theorem What Is Momentum? How To
Calculate Momentum, With Examples

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What is Impulse? What is Momentum?

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Impulse Momentum Theorem | New
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Momentum and Impulse Impulse and
Momentum Part A F.Sc Part-1 { Physics }
Chap#3 Lec#7 { Momentum And
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Impulse

7.1 The Impulse-Momentum Theorem. J F

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7.1 The Impulse-Momentum

Theorem. The linear momentum of an object is the product of the object's mass times its velocity. $p = mv$. Momentum is a vector quantity and has the same direction as the velocity. **kilogram meter/second (kg m/s) DEFINITION OF LINEAR MOMENTUM.**

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Chapter 7 Impulse and Momentum

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.

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the force acts. How a force changes the motion of an object depends on both the size of the.

Chapter 7 Momentum and Impulse

Chapter 7 Impulse and Momentum 1. 1)

Linear momentum ... $F \cdot t = \Delta p$ 4.

Impulse-momentum theorem Impulse

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

C&J 7.9 A space probe is traveling in 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

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Chapter 7 – 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

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both magnitude and direction to the impulse • Momentum changes when ...

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

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4:23. Chapter 7, Example #2 - Car and van collision (graphical question on ...

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STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. Jo-Joanna PLUS. Terms in this set (10) D. N · sec. 1. One form of the proper metric unit for momentum is A. Joule. B. Kg · m. C. Kg · m/s² D. N · sec. B. Removing a shoe and throwing it away from the shore.

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2. Suppose you are out on a ...

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Impulse Equation. $\text{impulse} = f(\Delta)t$.

Units: $\text{N} \times \text{s}$ OR $\text{kg} \times \text{m/s}$. The impulse will be greater if. the force is applied for a longer period of time. Impulse-

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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;

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

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Momentum is inertia in motion and impulse is the change in momentum. When does an object have large 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: kilogram \cdot meter/second = (kg \cdot m/s) = . Impulse, J. The impulse. J. of a force is the product of the average force and the time interval Δt .

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CHAPTER 7 Momentum Chapter

Outline 7.1 MOMENTUM

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

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impulse. To start an object moving when it is at rest, you must provide an impulse.
When an

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

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falling object: g , v , d Impact, then changes
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Chapter 7 Momentum . Conceptual

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Physics . Objectives: The student will 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 .

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Falling Objects and Projectile Motion. 6

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pages. Chapter 11 Heat Engines and the
Laws of 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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Momentum And Impulse

Impulse • In order to change the momentum of an object (say, golf ball), a force must be applied • The time rate of change of momentum of an object is equal to the net force acting on it – – Gives an alternative statement of Newton ' s second law – $(F \quad t)$ is defined as the impulse – Impulse is a vector quantity, the direction

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is the same as the direction of the force \mathbf{F}
 \mathbf{p} or \mathbf{a} $m \mathbf{t}$ v v $m \mathbf{t}$ \mathbf{p} \mathbf{F}_{net} i f_{net} :)

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