

PHYSICS UNIT 4 REVISION

FORCE AND MOMENTUM

P4-17

- A force is needed to change the velocity of an object.
- The effect of a force on an object depends on both the **force** and **mass**.

$$p = mv$$

- Momentum is measured in kgms^{-1} (or Ns) and is a vector.

$$F = \frac{\Delta p}{\Delta t} = \frac{\Delta(mv)}{\Delta t}$$

- ■■ "An object remains at rest or in uniform motion unless acted on by a force" – Newton's First Law of Motion. This means a force is needed to alter the momentum.
- ■■ "The rate of change of momentum of an object is proportional to the resultant force on it. The resultant force is proportional to the change of momentum per second." – Newton's Second Law of Motion.
- ■■ "When two objects interact, they exert equal and opposite forces on each other." – Newton's Third Law of Motion.
- If an object of constant mass is acted on by a force, we can reduce the equation to $F = ma$.
- The **Newton** is the force required to give an object of mass 1kg a constant acceleration of 1ms^{-2} .
- Impulse is the force by the time it acts for, a.k.a. the change in momentum.

$$\text{IMPULSE} = F \Delta t = \Delta(mv)$$

- Therefore, in a Force against time graph, the change in momentum can be found by taking the area (Ft).
- By increasing the amount of time of an impact, you decrease the magnitude of the force exerted since the acceleration/deceleration will be less, hence why cars have crumple zones, seatbelts, airbags etc. – all to increase the time for the impact to take place.
- **Remember:** In a rebound impact, e.g. a bouncing ball, the velocity will change direction. Do not forget to change the sign if necessary! And don't forget to use components if the body is impacting at an angle!
- The principle of conservation of motion states that for a system of interacting objects, the total momentum will remain constant, provided no external resultant force acts on the system.
- For two balls, A and B:



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Michal Rosen-Zvi



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Table of Contents Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme

1. Understanding the eBook Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - The Rise of Digital Reading Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Personalized Recommendations
 - Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme User Reviews and Ratings

- Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme and Bestseller Lists
- 5. Accessing Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme Free and Paid eBooks
 - Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme Public Domain eBooks
 - Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme eBook Subscription Services
 - Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme Budget-Friendly Options
- 6. Navigating Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme Compatibility with Devices
 - Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Highlighting and Note-Taking Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Interactive Elements Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
- 8. Staying Engaged with Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
- 9. Balancing eBooks and Physical Books Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Setting Reading Goals Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Fact-Checking eBook Content of Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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