

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 same 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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JL Elias



Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme:

Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Aqa A Level Physics Unit 4 June 2014 Unofficial Mark Scheme**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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