



A Level Physics Online

Eduqas Physics – Component 1

Module 3: Dynamics

This topic covers the concept of force and free body diagrams. Learners study Newton's laws of motion and the concept of linear momentum. The principle of conservation of momentum is used to solve problems involving both elastic and inelastic collisions.

You should be able to demonstrate and show your understanding of:	Progress and understanding:			
	1	2	3	4
The concept of force and Newton's 3 rd law of motion				
How free body diagrams can be used to represent forces on a particle or body				
The use of the relationship $F = ma$ in situations where mass is constant				
The idea that linear momentum is the product of mass and velocity				
The concept that force is the rate of change of momentum, applying this in situations where mass is constant				
The principle of conservation of momentum and use it to solve problems in one dimension involving elastic collisions (where there is no loss of kinetic energy) and inelastic collisions (where there is a loss of kinetic energy)				
SPECIFIED PRACTICAL WORK				
Investigation of Newton's 2 nd law				

