

L2.3 Literacy Skills in Physics – 3 (Rev C)

Use the answers below to assess your work from L2.2 Literacy Skills in Physics – 2.

1 Definitions

Find definitions for:

Work	The product of the <u>average</u> force and the distance moved in the direction of that force
Power	The rate of doing work or work done per unit time
Momentum	The product of mass and velocity
Gravitational field	A region of space in which a magnet or magnetic material experiences a force
Current	The rate of flow of charge
Velocity	The rate of change of displacement with time
Principle of Conservation of Energy	Energy cannot be created or destroyed but ... it can be transferred from one object to another ... or transformed from one energy type to another
Acceleration	The rate of change of velocity with time
Newton's First Law	An object will remain at rest ... or travel at constant speed in a straight line ... unless an external resultant force acts. If an external resultant force acts then the object will accelerate.
Newton's second Law	The acceleration of the object is directly proportional to the applied external resultant force, and the acceleration occurs in the direction of the resultant force
Newton's Third Law	If Object A exerts a force on Object B, then Object B will exert an equal but opposite force on Object A.