Open Awards Qualification Unit

This unit forms part of a regulated qualification. Click here to view qualifications.

1 Unit Details

Unit Title:	Forces
Unit Reference Number:	H/618/3227
Level:	2
Credit Value:	3
Minimum GLH:	24

2 Learning Outcomes and Criteria

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Know about forces	1.1 Describe forces in terms of pushes/pulls, stretching/squashing, friction and resistance. Identify and name a variety of forces including: a) Friction b) Drag c) Upthrust d) Gravity e) Weight
	1.2 Demonstrate using force arrows in diagrams including showing unbalanced forces
	1.3 Predict the movement/lack of movement in terms of balanced and unbalanced forces.

	1.4	Give examples of non-contact forces/fields, including; Describe the difference between contact and non-contact forces including examples. a) Gravity b) Magnetic c) Electrostatic
	1.5	Use the idea of balanced and unbalanced forces to explain terminal velocity
2. Understand the effect of gravity on masses	2.1	Distinguish between mass and weight
	2.2	Use the SI units of weight
	2.3	Use the SI units of mass
	2.4	Use energy conservation arguments to explain the forms of energy involved when an object falls to earth
	2.5	Outline the effects of air resistance on a falling object
3. Understand foces and motion	3.1	Describe the effect of forces on the velocity of an object
	3.2	Draw and interpret simple distance time graphs
	3.3	Illustrate the difference between velocity and speed
	3.4	Describe acceleration in terms of rate of change of velocity
	3.5	Give examples of factors that may affect braking distance and deceleration
	3.6	Define these terms: a) Inertia b) Momentum
4. Know about pressure in solids, liquids and gases	4.1	Explain the effect of these factors on pressure in solids, liquids and gases: a) Temperature b) Surface area
	4.2	Explain atmospheric pressure and depth