Unit Title: **Physics**
Unit Level: **Level 2**
Unit Credit Value: **4**
GLH: **32**
LASER Unit Code: **WJD456**
Ofqual Unit Code: **D/504/9144**

This unit has 7 learning outcomes.

LEARNING OUTCOMES		**ASSESSMENT CRITERIA**	
The learner will:		**The learner can:**	
1.	Be able to calculate amounts of energy from given formulae.	1.1	Identify forms of energy.
		1.2	State the principle of energy conservation.
		1.3	Calculate power amounts using formulae corresponding to a particular form.
		1.4	Calculate power as energy per second.
		1.5	Use SI units for energy.
		1.6	Use SI units for power.
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 the concept of balanced and unbalanced forces.	3.1	Describe the effect of forces on the velocity of an object.
4.	Understand the effect of resistance on electricity.	4.1	Construct a range of circuits.
		4.2	Measure current and voltage in low voltage circuits.
		4.3	Analyse the effect of changing resistance on the currents in a circuits.
		4.4	Determine the correct value fuse for a piece of equipment.
5.	Know about the concepts of magnetism.	5.1	Describe the interaction between poles of magnets.
		5.2	Describe the effect of current passing through a conductor on its magnetism.
6.	Know about properties of sound.	6.1	State how sound is caused by vibration and travels at different speeds in different materials.

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		6.2	Identify from a waveform the following sounds: a) loud b) quiet c) high pitch d) low pitch.
7.	Know about the properties of light.	7.1	State some properties of light waves.
		7.2	Describe how light is reflected from surfaces.
		7.3	Describe how an image is formed in a mirror.
		7.4	Describe how the colour of an object depends on the wavelength of the light it scatters.

Assessment Guidance:
NA

Additional Information:
NA