

# Open Awards Qualification Unit



This unit forms part of a regulated qualification.

## 1 Unit Details

Unit Title:	Light and Sound
Unit Reference Number:	Y/615/6316
Level:	1
Credit Value:	3
Minimum GLH:	27

## 2 Learning Outcomes and Criteria

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Know the terms relating to light and sound	1.1 Give a definition for: a) Amplitude b) Wavelength c) Frequency, relating to velocity d) Frequency, relating to wavelength
2. Be able to identify different types of wave	2.1 Identify a) Transverse wave b) Longitudinal waves
3. Know about light waves	3.1 Give different sources of light 3.2 Give a definition of a) Darkness b) Luminous c) Non-luminous 3.3 Demonstrate splitting white light with a prism 3.4 Demonstrate the differential colour effects in a) Absorption b) Reflection 3.5 State how light travels through a lens. 3.6 Outline how light travels through a vacuum

4. Recognise the role of light waves in imaging	4.1 Use the ray model to explain imaging in <ul style="list-style-type: none"><li>a) Mirrors</li><li>b) Pinhole camera</li><li>c) Human Eye</li></ul>
	4.2 Demonstrate the role of the following in focusing: <ul style="list-style-type: none"><li>a) Refraction of light</li><li>b) Action of convex lens</li></ul>
5. Know about sound waves	5.1 Outline how sound waves are produced by vibrations of objects
	5.2 Describe how sound waves need a medium to travel
	5.4 Give definitions of: <ul style="list-style-type: none"><li>a) Echoes</li><li>b) Reflection</li><li>c) Absorption</li></ul>
	5.5 Outline the auditory range of humans and animals