



Section 1: Key Vocabulary	
Key Word	Definition
Luminous	An object that gives off light
Non-luminous	An object that does not give off light
Light Intensity	A measure of the amount of light given off
Reflection	When light bounces off a surface
Refraction	Light waves change speed when they pass across the boundary between two substances with a different density,
Angle of Incidence	The angle between the normal and incident ray
Angle of Reflection	The angle between the normal and reflected ray
Incident Ray	The light going towards the mirror
Reflected Ray	The light coming away from the mirror
Normal	Drawn at 90° to the surface of the surface
Wave	Made by the movement of a particle. Waves transfer energy from one place to another with no transfer of mass
Wavelength	The distance between two identical parts of a wave
Wave Speed	How far a part of a wave travels in one second
Frequency	The number of waves per second

Section 2: Quick Questions	
How does light travel?	In straight lines, very fast (300 000 000 m/s) and doesn't need a medium
How do we see objects?	Light from a luminous object is reflected off the object and in to our eyes
How does light behave when it changes substance?	If the substances have different densities, it will change speed and change direction (refraction)
What part of the eye is sensitive to light?	The retina is the light sensing part of the eye
How do we see different colours?	When white light, which contains all colours, hits an object, some colours are absorbed and others reflected - those reflected are what colour we see that object as
How does sound travel?	Requires a medium (a material), as a transverse wave, and its speed in air is 330 m/s
How are frequency and pitch related?	A high frequency produces a high pitched noise, whilst a low frequency produces a low pitched noise
What is an echo?	When a sound wave reflects off a flat surface
What hearing problems can loud noises cause?	Either total loss of hearing, reduced hearing or tinnitus (ringing in the ears)

Section 3: Helpful Diagrams

Section 4: Video Links