Matter Classified by behaviour when light strikes



The law of reflection



KS3 Waves knowledge organiser

Keyword	Definition
Wave	Transfer of energy
Transverse wave	Particles vibrate perpendicular (at right angles) to the direction of wave travel
Longitudinal	Particles vibrate parallel (in the same direction)
wave	to the direction of wave travel
Transparent	Light can travel straight through
Translucent	Some of the light travels through and is scattered
Opaque	Light cannot travel through
Specular reflection	Reflection from a smooth surface
Diffuse reflection	Reflection from a rough (uneven) surface
Normal line	An imaginary line perpendicular (at right angles) to the reflecting surface (mirror)
Incident ray	The ray of light hitting the mirror
Reflected ray	The ray of light travelling away from the mirror
Visible spectrum	The colours of the rainbow
Disperse	Spread out

Transverse wave Vibrations at right angles to the wave direction wavelength wavelength amplitude wavelength



Examples of transverse waves: electromagnetic waves, water waves, slinky

Examples of **longitudinal** waves: sound waves, ultrasound, slinky

Sound waves are longitudinal waves

