

Newton Tony Primary School CE VC
Science key skills and knowledge

Energy

Year 3	I know that light travels from a source (e.g. the Sun, light bulbs and torches).
	I know that shadows are formed when the light from a light source is blocked by an opaque object (a brick)
	I know that shadows change position and length throughout the day as the Sun changes position in the sky.
Year 4	I know that vibrations from sounds can travel through air, water and wood to the ear.
	I know that quicker vibrations cause higher-pitched sounds and slower vibrations cause lower-pitched sounds.
	I know that stronger vibrations cause louder sounds and weaker vibrations cause quieter sounds.
Year 6	I know that light travels in a straight line from a light source.
	I know that when light is reflected off a surface, its direction changes.
	I understand how the angle of a reflected ray is affected by the angle of the incoming ray on a smooth surface.
	I understand why shadows have the same shape as the objects that cast them as a result of light travelling in straight lines.