

Golden Concepts

Asking scientific questions

Planning an investigation

Collecting, presenting and interpreting data

Errors and uncertainty

Science in our world

Key Vocabulary

Transparent	A material light will pass through, you can see through it
Translucent	A material some light will pass through
Opaque	A material which blocks all the light
Vibrations	A vibration is when an object moves backwards and forwards very, very quickly
Sound Waves	Particles vibrate to transfer sound energy as sound waves
Particles	Everything in the universe is made up of tiny parts called particles
Medium	If light travels through a window. We say it passes from one medium (air) to another (glass)
Refraction	The way light appears to bend when it passes through a material
Pitch	How high or low the sound is
Frequency	The number of waves

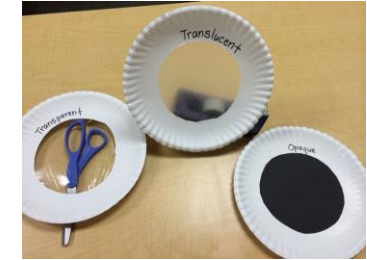
Light and Sound KS2 Knowledge Organiser

Light:

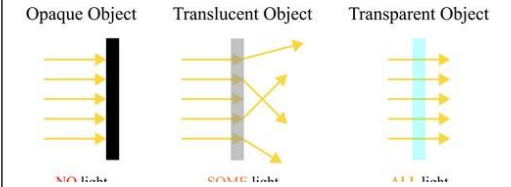
Understanding the properties of light, including transparency and translucency.
Investigating the refraction of light.
Exploring how colours are formed.
Understanding how light travels and the concept of the speed of light.

Sound:

Understanding that sound is caused by vibrations.
Exploring how sound travels through different materials.
Investigating the relationship between pitch and the frequency of vibrations.
Recognizing that sound needs a medium to travel through.



Mediums of Light



Object	Transparent	Translucent	Opaque
Pencil			X
Polly pocket	X		
Paper		X	
CD			X
Rubber			X

