

# LKS2 Science Knowledge and Skills Organiser

# Lights, Camera, Active

Key Knowledge and Skills		Key Vocabulary	
Light Sources	Sound	Word	Definition
A light source makes light. The Sun and other stars, fires, torches and lamps all make their own light so are examples of		Light	a source of energy that allows you to see
	hear the vibrations as sounds. You cannot always see the vibrations, but if something is making a sound, a part of it is	Dark	the absence of light
Darkness is what happens when there is an absence of light. When there is no light, it is dark. A shadow is made when an	t, it is dark. A shadow is made when an shadow is a dark area or shape caused by a the rays of light from a light source. Sounds can be high or low. We call this the pitch. The pitch of a sound is how high or low the sound is. A high sound has a high	Shadow	a dark area or shape produced by an object coming between rays of light and a surface
solid object blocking the rays of light from a light source.		Opaque	cannot see through
		Transparent	can see through
	Translucant	can be seen through, but not clearly	
	Volume	how loud or quiet a sound is	
fabrics do not reflect light well.		Vibration	very quick movements
When the light hits the dog, it is reflected and enters our eyes.	Sounds can also be loud or quiet. We call this the volume or	Sound	vibrations that travel through the air and other mediums and can be heard
		Pitch	how high or low a sound is
		Pinnae	the outside flaps of the ear which help 'catch' the vibrations
Light trevels from the sun in a straight line.	loudness of the sound. Loudness is the amount of energy in the sound. The energy creates different sized vibrations. If you hit a	Decibels	The measurement of sound
The Curr	drum hard, you give it lots of energy and the vibrations will be		

#### Skills

To be able to ask relevant questions and use different types of scientific enquiries to answer them. To be able to set up simple practical enquiries, comparative and fair tests.

To be able to identify differences, similarities or changes related to simple scientific ideas and processes.

To be able to record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

## Dark an

#### Reflecti



## The Sun

The Sun is the biggest light source we use. It is a huge ball of hot, burning gas. It can damage our eyes if we look directly at it. We should protect our eyes from the Sun by wearing sunglasses and wearing a hat.

## Types of Objects

Objects are either opaque, translucent or transparent. Opaque objects let no light pass through. Translucent objects let some light pass through. Transparent objects let light pass through



bigger than if it was hit gently. Bigger vibrations cause louder sounds. Loudness is measured in decibels (dB)

#### The Ear



#### **Focus Scientists**