


Year 3: Light and Shadows Knowledge Mat

Subject Specific Vocabulary		Working Scientifically	By the end of this unit, I will know...
description	A statement that says what you see.	<ul style="list-style-type: none"> Set up simple practical enquiries, comparative and fair tests. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment including thermometers and data loggers. Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions. 	We need light to see. Darkness is the absence of light when we can't see.
dull	A surface that scatters light and does not look shiny.		The Sun, fire, electric light and torches are all sources of light. The Moon is not a source of light because it reflects sunlight.
explanation	A sentence or sentences giving a reason for something happening.		We see objects that are not the light source because the light hits them, is reflected off and then travels to our eyes. Often the light has been reflected off several objects before it enters our eyes.
light source	The place where light originates from.		Different materials reflect light differently. Dull materials scatter light and do not reflect very well. Shiny objects reflect light extremely well.
mirror	A shiny polished surface.		Light travels in straight lines. Shadows are formed when some rays of light continue to travel in straight lines, while other rays are stopped by an object.
observation	What we see happening in a scientific test.		We see objects because light rays enter our eyes after reflecting off the objects.
opaque	Not letting light pass through.		Mirrors reflect light well so we can see a reflection. Different types of mirrors reflect light in different ways.
reflect	To change the direction of light using a shiny surface.		Our famous scientist for the term is: Alhazen Ibn al-Haytham
shadow	Darkness caused by light being blocked.		
shiny	Surfaces that reflect lots of light.		
translucent	Letting some light through.		
transparent	Letting most or all light through.		
scatter	To separate and go in various directions.		

