

Knowledge Organiser for Year 3/4 (Science)

Key idea: Light

Tier 3 Vocabulary	
Light source	An object that produces its own light (sun, fire)
Artificial light	Light made from a man-made object (torch, lamp)
Shadow	A dark area or shape caused by a blockage in light
Reflection	When light bounces off a reflective surface
Translucent	When light can travel through an object (glass)
Transparent	When some light travels through an object
Opaque	When no light travels through an object

Knowledge item 1:

Light travels in a straight line

Knowledge item 2:

You need light to be able to see. It can be from natural or man-made sources



Knowledge item 3:

Light can be reflected

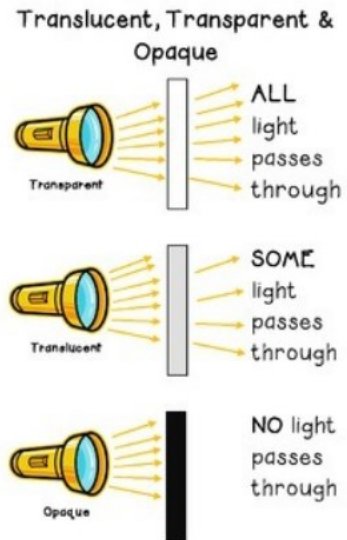
Reflection

When a beam of light is reflected from a surface, it changes direction. Smooth, shiny surfaces such as polished metals reflect light well. Rough and dark surfaces do not reflect light well.



Knowledge item 4:

A ray of light can be changed by placing objects in front of it.



Knowledge item 5:

You can change the size and shape of shadows by placing the light source further away or closer to the object.

