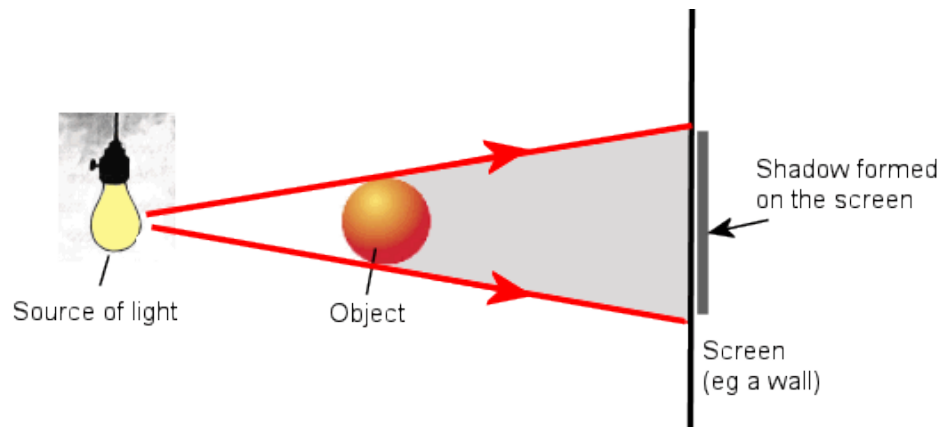
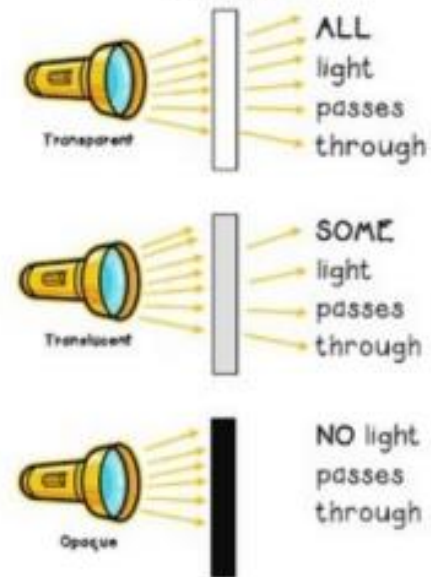


# Light Knowledge Organiser – Year 3 & 4 Science

## Physics

Vocabulary	Definition
Reflect	Throw back (heat, light, or sound) without <a href="#">absorbing</a> it
Light	The natural agent that <a href="#">stimulates</a> sight and makes things visible
Shadows	Dark area or shape produced by a body coming between rays of light and a surface.
Opaque	Not able to be seen through; not transparent
Transparent	Allowing light to pass through so that objects behind can be <a href="#">distinctly</a> seen
Translucent	Allowing light, but not detailed shapes, to pass through; semi-transparent.
Dark	With little or no light

### Translucent, Transparent & Opaque



## 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.



# Light Knowledge Organiser – Year 3 & 4 Science

## Physics


### The Eye

If too much light comes through the pupil, it can damage the retina.

It causes pain, so that you instantly close your eyes, or turn away from a bright light.

It is very important that you never look directly at the sun, as the light can damage your eyes very quickly.

Bright lights indoors can also damage your eyes, so you should never look at them, or shine lights into anyone's eyes.



Active  
Go to 36

Natural source of light



Sun



Stars



Fire-Fly

Artificial source of light



Candle



Lamp



Bulb

### Assessment

- To recognise that we need light in order to see
- To explore how light is reflected from surfaces
- To explore the sun as a light source and how to protect your eyes
- To investigate what shadows are and why they are formed
- To investigate how the size of shadows change throughout the day.