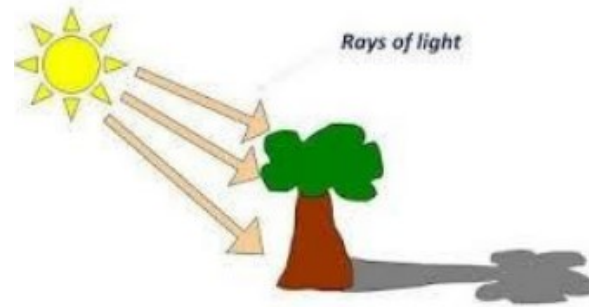




What I should already know

- Properties of materials
- Certain things produce light, usually by burning (e.g. the Sun) or electricity (e.g. street lights)
- Shiny materials do not make light but do reflect it.
- Shadows are caused when certain materials block light
- Year 1 seasonal changes



Sticky Knowledge

- recognise that we need light in order to see things and that dark is the absence of light
- notice that light is reflected from surfaces
- recognise that light from the sun can be dangerous and that there are ways to protect our eyes
- recognise that shadows are formed when the light from a light source is blocked by an opaque object
- light travels in straight lines
- the moon is not a source of light even though we can see it in the dark
- transparent materials let light through them and opaque materials don't.

Working Scientifically

- look for patterns in what happens to shadows when the light source moves or the distance between the light source and the object changes.

Vocabulary

bright	strong and noticeable, and not dark
dark	the absence of light
dim	light that is not bright
electricity	a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for machines
light	a form of energy that travels in a wave from a source
opaque	objects that do not let any light pass through them.
reflects	sent back from the surface and not pass through it
shadows	an area of darkness where light has been blocked.
source	where something comes from
torches	a small electric light which is powered by batteries and which you can carry
translucent	if a material is translucent, some light can pass through it
transparent	if an object or substance is transparent, you can see through it
pupil	the back part of the eye which lets light in
retina	layer at the back of the eye. It takes in the light the eye receives and changes it into nerve signals to send to the brain.