

The Big Question: How can you light up your life?

LQ1 *How do we know that light travels faster than sound?*

LQ 2 *How can you set up an experiment to show that light travels in straight lines?*

LQ 3 *How do your eyes work?*

LQ 4 *How can you use mirrors to see around blind corners?*

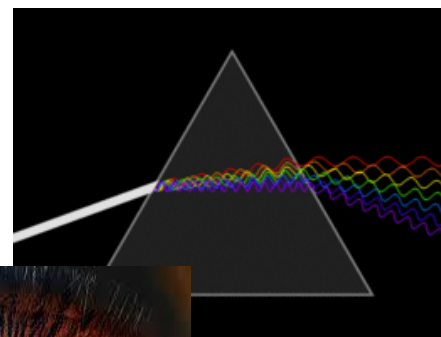
LQ 5 *Can you design an experiment to test whether something is translucent, opaque or transparent*

LQ 6 *Can you create a shadow puppet story and present it to others?*

End Product *A shadow puppet show*

Links to units. *Electricity Y4
Light and Shadow Y3
Labelling materials Y1.(transparent, opaque and translucent.)
Light Y7.*

Cross-curricular links. *Maths – Tables and graphs
DT- Making a puppet show.*



Suggested Books



Sticky Knowledge

- Light travels in straight lines
- Light can be reflected and refracted.
- The moon reflects the Sun's light
- Transparent means completely see through, translucent means partially see through and opaque means not see through.
- We see things because light travels from a source into our eye or from a source to an object and then into our eye.
- Shadows are the same shape as the object because light travels in a straight line
- The main parts of the eye are the lens, retina, iris, retina and pupil.
- Light can be defined by its wavelength and frequency.
- Frequency is how fast it vibrates up and down.
- Concave and convex lenses reflect light differently

Vocabulary

Light, sound, waves, transparent, translucent, opaque, lens, iris, cornea, retina, wavelength, frequency, concave, convex, reflect