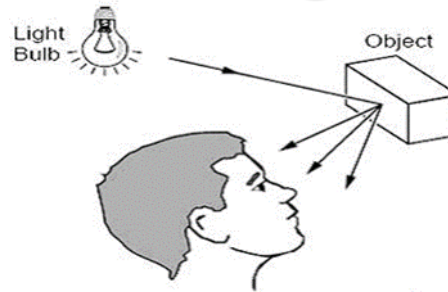




Year 6 Sticky Knowledge Mat: Light

Exciting resources

'Fairground Rides'
Torches



Sticky Knowledge about Light

Light travels in a straight line (in 'light waves') until it hits an object.

We see things because
light travels from a light source to our eyes
or from a light source to an object and then to our eyes
Objects are seen because they either give out light or re-
flect other light into our eyes.

Light travels in straight lines and therefore shadows have
the same shape as the objects that cast them.

Light is reflected off all surfaces. Smooth, shiny surfaces
reflect light clearly and dull, rough surfaces scatter light in
all directions.

Prior Learning (year 3)

- Recognise that they need light in order to see things and that dark is the absence of light
- Notice that light is reflected from surfaces
- Recognise that shadows are formed when the light from a light source is blocked by an opaque object.

Subject Specific Vocabulary

light	A form of energy that travels in waves, like sound
light source	Something that produces light such as a torch, the sun, a candle
opaque	Not able to be seen through
reflection	When light bounces off an object.
shadow	A dark area where light is blocked by an opaque object
translucent	Allows light but not detailed shapes to pass through (semi-transparent)
transparent	Can be clearly seen through
refraction*	When a light wave changes because it hits a different material (e.g. from air to water)