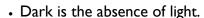
Science • Light



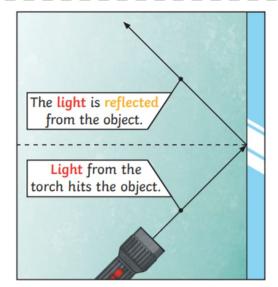
Crucial Knowledge



Diagrams / Images



- Light is needed to see and is reflected from a sur- I face.
- Light is produced from light sources such as a lamp or the sun.
- When something blocks the light travelling from the light source, a shadow is made.
- Shadows can change shape. As light moves closer, the shadow becomes longer and wider. As light moves away, the shadow becomes shorter and thinner.





Key Vocabulary



Light source: anything that makes light; may be natural or artificial



Absence of light: darkness; this is what occurs when there is no light at all.

Opaque: not able to be seen through



Transparent: allowing light to pass through so objects behind can be clearly seen



Translucent: allowing light, but not detailed shapes, to pass through.



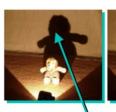
Shiny: reflecting light, often if very clean or polished



Matt: dull and flat, without a shine



Reflect: throw back (light) without absorbing it



LARGE SHADOW

when the toy is

close to the light

SMALLER SHADOW when the toy is further from the light TINY SHADOW

TINY SHADOW when the toy is a long way from the light



Important People

Al

Alison Sweeney is a biophysicist who has studied how sea creatures bend a reflect light and how this could help people generate energy.

Euclid was an ancient Greek Mathematician who described the law of reflection in 300BC

П



We Are Building Our Knowledge From

Uses of Everyday Materials (Y2)

This will help when we learn about
Light (Y6)