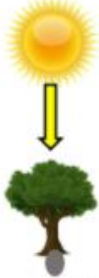


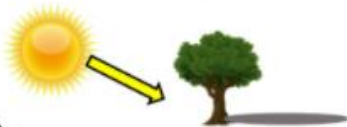
As the earth spins, it makes the sun appear to rise in the east in the morning. Because the sun hits an object at an angle, the shadow is long.



As the earth continues to spin the sun is overhead by midday. Because the sun hits the object from above, the shadow is short.



As the earth spins and the sun sets in the west in the evening, the shadow is long.



LIGHT

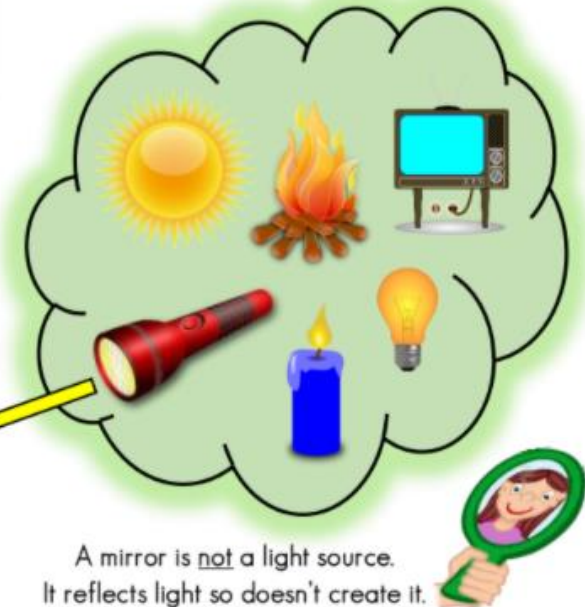
Light travels in straight lines. It travels from the light source either directly into our eyes, or reflects off objects at 670 million mph.



Because light travels in straight lines, when it hits an object, it is blocked. It can't bend around the object so it casts a shadow.



LIGHT SOURCES



A mirror is not a light source. It reflects light so doesn't create it.

Opaque: This is the name given to objects which light *cannot* travel through. They block light and create shadows

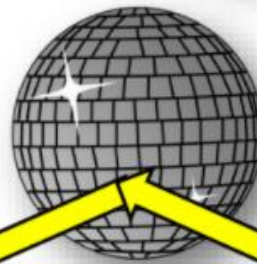
Translucent: This is the name given to objects which *some light* can travel through.

Transparent: This is the name given to objects which light *can* travel through.

- 1.) We can see objects because light reflects off them and into our eyes.
- 2.) Light reflects off most objects, especially colours like white and yellow.
- 3.) If there is no light at all (pitch-black), then there is no light to reflect and we can't see anything at all.
- 4.) At night you can still see a bit in the dark because the moon is reflecting light.



When light hits a smooth object, it bounces off (reflects) making it appear shiny.



Rainbows are formed when the sun shines through water particles (transparent) and when white light passes through, it 'bends' and splits into the range of colours which make white light

ROY G. BIV



Maths

In maths children will continue to revisit a range of mental strategies to add and subtract numbers, before moving on to the formal written methods. They will then be looking at multiplication, improving their rapid recall of the 3,4 and 8 times tables as well as understanding the link to division.

R.E

In religious education the children will learn all about Christianity, with a focus on Christmas.

English

In English children will learn the all about explanatory texts. The children will look at a range of different examples. From this they will learn about the different language and structural features of the text before writing some of their own.

Art

In art children will learn how to shade and show tones and texture to their art. They will also learn about various famous artists and the techniques they used in their art.

Computing

In computing children will develop their knowledge of online safety before moving on to spreadsheets.

PE

In P.E the children will be taking part in a range of challenges to improve various skills. In addition, they will be taking part in gym and dance.

Music

In music children will learn how to create rhythms using Boomwhackers.