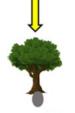
## Year 3 Summer Term Science Knowledge Organiser

## Key questions: How does light help us see? How are rocks and soils formed?

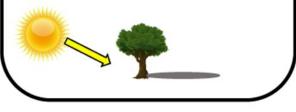
As the earth spins, it makes the sun appear to rise in the east in the morning. Because the sun hits an object at an angle, the shadow is long.



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.



**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.

## LIGHT

 We can see objects because light reflects off them and into our eyes.
Light reflects off most objects, especially colours like white and yellow.
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.

## **Light Vocabulary**

Transparent	Reflect	Wave	Eye
Translucent	Reflection	Photon	Iris
Opaque	Refraction	Lightspeed	Pupil
Shadow	Light	Producer	Sclera
Absorb	Energy	Reflector	Retina

pupil

retina

with a UV rating.

The pupils

control the amount of light entering the eyes. If too much light enters,

then it can damage the retina. To

help protect the eyes, you can wear a hat with a wide brim and sunglasses

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

