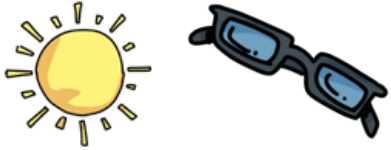


The sun is the biggest light source we have. It is a giant ball of hot, burning gas.

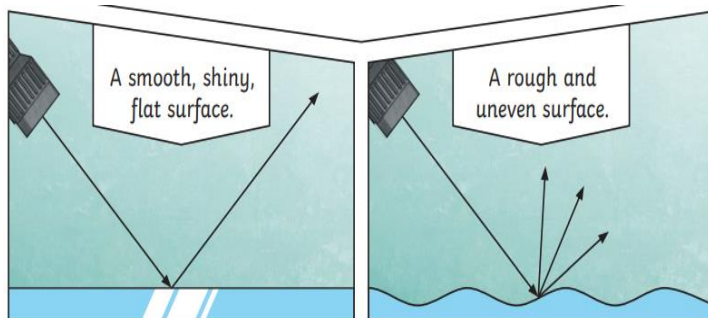


It can damage our eyes if we look directly at it, so we should protect ourselves with sunglasses and hats.

### Reflective light

Light travels in straight lines. When light from an object is reflected by a surface, it changes direction.

Smooth, shiny surfaces such as mirrors and polished metals reflect light well. Dull and dark surfaces such as dark fabrics do not reflect light well.



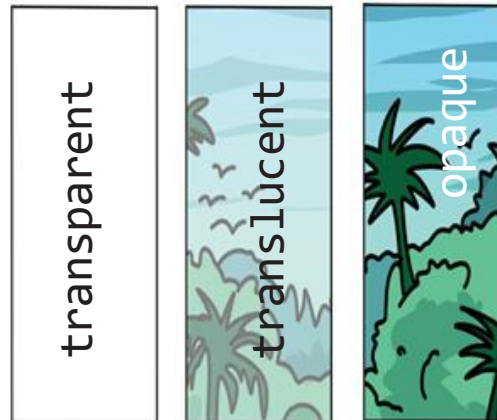
# LIGHT

## KNOWLEDGE ORGANISER

A light source makes light. The Sun and other stars, fires, torches and lamps all make their own light, so they are



Different materials, let differing amounts of light through.



Transparent = no light    Translucent = some light    Opaque = no light

### Key Vocabulary

- **dark** - the absence of light
- **direction** - the way that something is moving
- **light** - a source of energy that allows you to see
- **light ray** - an imaginary line that represents the line of light
- **light beam** - a group of light rays
- **light source** - something that makes light
- **reflect** - bounces off or changes direction
- **reflective** - something that reflects well
- **refraction** - when light changes direction when going through the boundary of a state of matter
- **shadow** - a dark area or shape produced by an object coming between rays of light and a surface
- **transparent** - can be seen through
- **translucent** - can be seen through, but not clearly
- **opaque** - cannot be seen through