

Light

*Exploring materials and their properties
to make sunglasses*

*Year 3 / Key Stage 2
Age 7-8*



For parents and carers

Thank you for supporting your child's learning in science.

Before the session:

- Please read slide 2 so you know what your child learning and what you need to get ready.
- As an alternative to lined paper, slide 5 may be printed for your child to record on.

During the session:

- Share the learning intentions on slide 2.
- Support your child with the main activities on slides 3 & 4, as needed.
- Slide 6 is a further, optional activity.
- Slide 7 has a glossary of key terms.

Reviewing with your child:

- Slide 8 gives an idea of what your child may produce.



Light

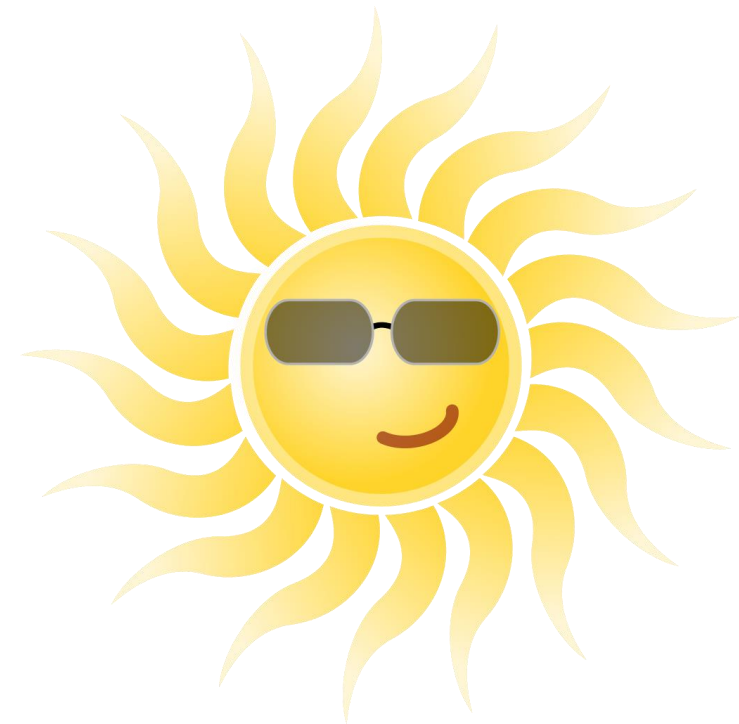
Exploring suitable materials for making sunglasses

Key Learning

- The light from the sun can damage our eyes and therefore we should not look directly at the sun.
- We can protect our eyes by wearing sunglasses or sunhats in bright light.

I can...

- explore suitable materials for making sunglasses.





Explore, review, think, talk....

What do you already know about... sunglasses?
(5 minutes)

- Talk or think about why we wear sunglasses?
- How do they help us when it's sunny?
- What might happen if we didn't wear them?

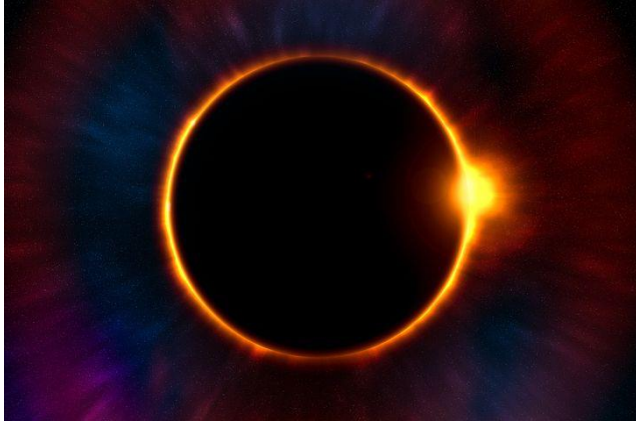


- Sunglasses protect our eyes from strong sunlight.
- Sunglasses block some of the sunlight from entering our eyes, which makes it easier for us to see.



Watch, read, listen...

*Opaque, translucent, transparent materials
(10 minutes)*



- Watch this clip about people watching a solar eclipse (England, 1999):
- <https://www.youtube.com/watch?v=18xY0XygVGc>
- Why do you think they are wearing special glasses?

Read this article from DK:

- <https://www.dkfindout.com/uk/science/light/transparent-and-opaque-objects/>



Glossary of terms

bright: If an object is **bright** it gives out or reflects much light.

dark (scientific): **Dark** is the absence of light.

dark (everyday): very little amount of light.

dull: If an object is **dull** it is not shiny or bright.

light: **Light** is the form of energy that makes it possible for eyes to see.

material: Anything used for building or making something else.

shiny: Reflecting or glowing with light.

surface: The outside limit or top layer of something.