



What I should already know:

The sun gives us light.
It is dark at night.

By the end of this unit I will know:

Shadows are formed when light is blocked by an object and the size and shape of the shadow is affected by its position.
Exposure to the sun can cause harm.
Our eyes should be protected from the sun.
There needs to be light for us to see and some things give out light and others reflect it.



Investigation:

How can we make it easier to see at night?
Can you make and change the shape of a shadow?
What makes the best sunglasses?



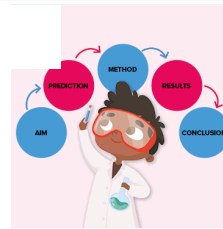
YEAR 3: Can You See Me?

Science: Physics



Working Scientifically

Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions



Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

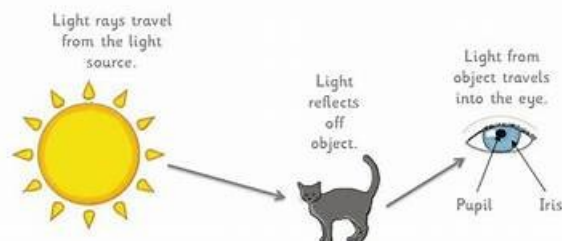
Using straightforward scientific evidence to answer questions or to support their findings.

Identifying differences, similarities or changes related to simple scientific ideas and processes.

Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.

Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.

Setting up simple practical enquiries, comparative and fair tests; making accurate measurements using a range of equipment, for example thermometers and data loggers



Vocabulary

Dark	The absence of light
Infrared	A type of light that we cannot see without special equipment. Infrared light is given out by heated objects
Light beam/ray	A column of light that shines out from a light source
Light source	Something that gives out light: eg: the sun; torch; flame
Luminous	Giving off light
Mirror	A surface that reflects light
Non-luminous	An object that does not give out light but can reflect it
Opaque	A material that does not let light pass through it
Reflect	When a ray of light hits a surface and bounces off it
Shadow	A dark area or shape caused when a light source is blocked by an opaque object
Translucent	Material that lets only some light pass through it
Transparent	A material that lets light pass through it
Ultraviolet	A type of light that we cannot see without special equipment

