



Light Pollution



Year 6

Knowing More, Remembering More

Remembering previous learning

How can we see objects? Humans can see objects because a light source produces light. Light reflects from an object to the eye. Light passes through the pupil to the retina.

What is a reflection? A reflection is where light rays bounce off an object.

What are shadows like? The shape of a shadow is determined by the shape of the object that blocks the light. Shadows are always dark because they are areas from which light has been blocked.

What is refraction? When light passes from one medium to another, it can change direction. For example, a pencil looks bent when it is put into water, because light travels at a different speed in water than it does in air.

What colours make up white light? A mixture of colours make white light.

What is a rainbow? A rainbow is a spectrum of light formed when sunlight passes through, and is refracted by, raindrops.

Sustainability Question

What is light pollution and how can we reduce it?

Key Learning Steps:

1. What is light pollution?
2. How can we reduce light pollution?

Working Scientifically:

- 6.10 Report and present findings from enquiries including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations.
- 6.14 Identify scientific evidence that has been used to support or refute ideas or arguments.

Key Vocabulary:

- migration
- glare
- light trespass
- skyglow
- light pollution
- urban
- rural
- light emission
- appliance

Sustainability Champions



Contemporary

Emma Marrington

Emma is a rural policy specialist who works for the CPRE, the countryside charity. She leads the campaign to protect dark skies.



Contemporary

Pope Francis

In his encyclical, Laudato Si, Pope Francis encourages us all to be better stewards of creation and take better care of our world.

Knowing More, Remembering More

Knowing more in Y6

What is light pollution? Glare, light trespass and skyglow are all types of light pollution.

What is glare? Glare is caused by brightness from car or vehicle headlights.

What is light trespass? Light trespass is where light shines into areas it is not intended to.

What is skyglow? Skyglow is the brightening of the sky at night.

How can we reduce light pollution? By turning off lights, devices, appliances and machines, unplugging electronic equipment and using natural light as much as possible.