

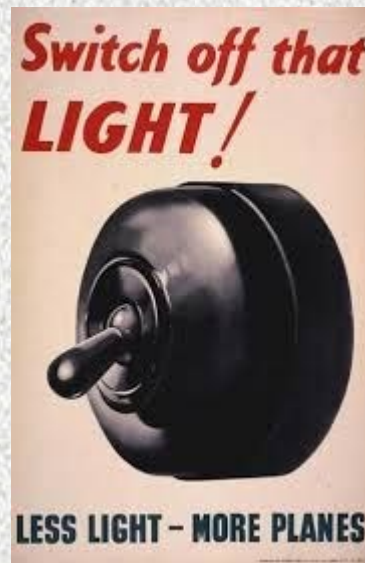
LOOKING AT LIGHT DURING THE WAR

Curriculum Subject - SCIENCE

Summary

During the war, light was a luxury. When it was time for the blackout, all light sources had to be dimmed or blocked off completely. This meant blacking out your windows or placing covers over the car and street lights.

When light sources could be used though, they were vital. In this unit, we will look at how light actually helps us to see, how reflection could be used to win the war and discovering if it is possible to make light bend!



Key Vocabulary

light - A form of energy that travels in a wave from a source.

reflection - Reflection is when light bounces off a surface, changing the direction of a ray of light.

incident ray - A ray of light that hits a surface.

reflected ray - A ray of light that has bounced back after hitting a surface.

the law of reflection - The law states that the angle of the incident ray is equal to the angle of the reflected ray.

refraction - This is when light bends as it passes from one medium to another. E.g. Light bends when it moves from air into water.

transparent - Describes objects that let light travel through them easily, meaning you can see through the object.

translucent - Describes objects that things let some light through, but scatters the light so we can't see through them properly.

opaque - Describes objects that do not let any light pass through them.

Top Facts

1. Light waves travel out from sources of light in straight lines.
2. We can only see things because objects reflect beams of light directly into our eyes.
3. Light travels as a wave. But unlike waves of water or sound waves, it does not need a medium to travel through. This means light can travel through a vacuum - a completely airless space.
4. When light hits a smooth surface, it will reflect off at the exact same angle that it hit it at.
5. Shadows can be elongated or shortened depending on the angle of the light source.
6. Also, a shadow is always the same shape as the object that casts it.

Photo Caption

