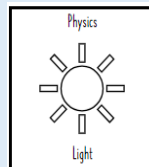


Physics

Light



Year 5/6 – Autumn 2

What should I already know?

- We need light to be able to see things.
- Light is reflected from surfaces.
- Shadows are formed when the light source is blocked by a solid object.
- Light from the sun can be dangerous and there are ways to protect your eyes.

What will I learn?

- Light waves travel in straight lines.
- Objects are seen because they give out or reflect light into the eye.
- We see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- Shadows have the same shape as the objects that cast them.



Types of Enquiry

Observing
changes
over time

Pattern
seeking

Identifying,
groups &
classifying

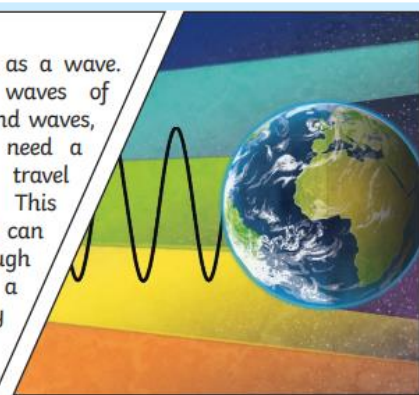
Comparative
and Fair
testing

Research

Tier 3 Vocabulary

Energy	Natural Light
Light Source	Opaque
Translucent	Transparent
Reflection	Refraction

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.



Isaac Newton shone a **light** through a transparent **prism**, separating out **light** into the colours of the rainbow (red, orange, yellow, green, blue, indigo and violet) - the colours of the **spectrum**. All the colours together merge and make visible **light**.



Working Scientifically Skills

How will I be a scientist?

Plan

I will decide how to investigate reflective materials and develop a way to test the materials

Do

I will test to see if materials are reflective

Record

I will classify the materials into reflective and not reflective

Review

I will present my findings and suggest which material would be the best to use to create a reflective jacket