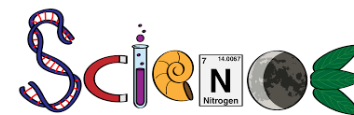




St Andrew's C of E Maghull Science Knowledge Organiser



Year 6 – Autumn 1 – Light and How it Travels (Chemistry and Physics)

Knowledge:

- I can recognise that light appears to travel in straight lines.
- I can use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- I can explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Vocabulary:

- **straight lines** - light travels in straight lines called rays. Light may change direction when it encounters objects (such as a mirror) or in passing from one material to another (such as in passing from air to glass), but it then continues in a straight line or as a ray.
- **light rays** - light travels in straight lines called rays.

Lesson Sequence:

Lesson 1 – I can explain that light travels in straight lines.

Lesson 2 – I can explain that we see things when light travels into the eye.

Lesson 3 – I can explain that we see things when light is reflected from an object into the eye.

Lesson 4 – I can explain how mirrors are reflective materials that are used to change the direction in which light travels.

Lesson 5 – I can explore the size, colour and features of a shadow, and compare shadows to reflections of objects.

Lesson 6 – I can use the idea of light travelling in straight lines to explain shadow shape.

Lesson 7 – Celebration of knowledge.