

Lunt's Heath Primary School - Knowledge Organiser

Science Focus

Light

Year 6

Term Summer 2

What? (Key Knowledge)

Light Sources

We need light in order to see things. When there is no light we say it is dark.

What is a light source? A light source is something that makes its own light.

Light

Things you need to know about light

- Light travels in straight lines
- Light travels very, very fast - 186,282 miles per second. (that's like travelling around the world over 7 times in a second)
- If something gets in the way of light, a shadow is formed.

Shadows

How is a shadow formed? When light from a source is blocked by an opaque object, you get a shadow.

How does the size of the shadow change?

- If an object is moved closer to the light sources, the shadow gets bigger.
- If an object is moved further away from the light source, the shadow gets smaller.

Possible Experiences

-Design and make a periscope.

-Investigate refraction.

What? (Key Vocabulary)

Spelling

Definition/ Sentence

Shadow

A shadow is a dark area where light from a light source is blocked by an opaque object.

Refraction

When light travels from air into water, it slows down, causing it to change direction slightly. This change of direction is called refraction.

Light

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

Light source

An object that makes its own light.

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.

Diagrams and Symbols

