

My steps through learning:

What I will know and understand

How I will show that I know it

# Steps through Learning Science: Light and Shadow



## Lesson 7

To investigate how we use reflective materials in everyday life.

I can describe what a highly reflective object/surface is.

I can name ways in which we can use reflective surfaces.



## Lesson 6

To explore how light is reflected from surfaces.

I understand that light travels in straight lines.

I know that we see objects when light is reflected from a surface.



## Lesson 5

To investigate how the size of shadows change throughout the day.

I can explain why shadows created by the Sun change position during the day.

I can find patterns in the way the size of shadows change.



## Lesson 4

To investigate how shadows behave

I can identify where a shadow will be based on the position of the light source.

I can use simple equipment to explore how shadows behave.



## Lesson 3

To investigate what shadows are and why they are formed.

I understand that shadows are formed when light is blocked.

I can describe the differences between transparent, translucent, and opaque.



## Lesson 2

To learn about how light from the Sun can be dangerous and how we can protect ourselves.

I can name a way to protect my eyes and skin from the Sun

I can identify ways in which a test can be made fair



## Lesson 1

To recognise that we need light in order to see.

I know that dark is the absence of light.

I can name a variety of light sources.



## What should I already know

## National Curriculum:

KS2:

- recognise that they need light in order to see things and that dark is the absence of light
- notice that light is reflected from surfaces
- recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- recognise that shadows are formed when the light from a light source is blocked by an opaque object
- find patterns in the way that the size of shadows change.

