What should I already know?

* We need light in order to see things
* Notice that light is reflected from some surfaces
* Know that light from the sun can be dangerous
* Know how shadows are formed.

Taken from previous year’s learning on National Curriculum (incl. non-statutory section)

Key Vocabulary and Definitions:

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| --- | --- |
| Absorb | When light is taken in by an object and not reflected |
| Filter | Allows different wavelengths (colours) of light to pass through but not others |
| Isaac Newton | A famous scientist who discovered light could be split into different colours |
| Mirror | A shiny object that is able to perfectly reflect light |
| Reflection | When light bounces of a shiny object |
| Refraction | When light bends as it passes from one surface into another |
| Shadow | Formed when an object blocks light rays |
| Spectrum | Bands of colour formed by different wavelengths |
| Wavelength | The length of a wave of light from one crescent to another |
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Scientific Skills:

* Choose appropriate ways to communicate quantitative data using scientific language
* Use scientific knowledge to identify an approach for an investigation
* Select and use information
* Make reasoned suggestions on how to improve working methods

Teaching Sequence

1. To know how the human eye sees.
2. To know how light is reflected
3. To explain refraction
4. To explore the colours that make up white light
5. To explain how we see colours
6. To experiment with making shadows

Blooms Taxonomy – Specific Verbs to Use in Lesson Aims

Knowledge: Describe, find, identify, list, locate, name, recognise, retrieve Comprehension: Classify, compare, explain, infer, interpret, paraphrase, summarise Application: Carry out, implement, use Analysis: Deconstruct, Organise, outline, structure Synthesis: Construct, design, devise, invent, make, plan, produce, Evaluation: Appraise, assess, choose,

Key Knowledge



