

# What I need to know: Y6 Science - Light

*We nurture the curiosity to learn, the courage to lead and the compassion to care.*

Name:

Class:

For the next 6 weeks we are investigating and developing our understanding of Light

| What I will know...   | ✓ | Start                 | End                   |
|---|---|-----------------------|-----------------------|
| The difference between man-made and natural light sources         |   | <input type="radio"/> | <input type="radio"/> |
| The mechanics of the eye  |   | <input type="radio"/> | <input type="radio"/> |
| The meaning of reflection and how reflection works scientifically |   | <input type="radio"/> | <input type="radio"/> |
| How white light is made up of the full spectrum of colours        |   | <input type="radio"/> | <input type="radio"/> |
| What is meant by the term refraction                              |   | <input type="radio"/> | <input type="radio"/> |
| How light effects shadows   |   | <input type="radio"/> | <input type="radio"/> |
| How to plan and carryout an experiment to investigate shadows     |   | <input type="radio"/> | <input type="radio"/> |

| Skills I may use...                           |   |
|---|---|
| <b>Remember:</b> name, identify, describe     | <b>Analyse:</b> investigate, infer, select, clarify |
| <b>Understand:</b> predict, recall, interpret | <b>Create:</b> plan, design, construct              |
| <b>Apply:</b> use, show, relate, demonstrate  | <b>Evaluate:</b> compare, assess, judge             |

| Vocabulary I need to know...  |                                     |  |
|---|-------------------------------------|--|
| 1. I have heard the word, but I don't know what it means  | 2. I understand what the word means | 3. I can explain what the word means and give other examples |
| Light source, reflection, refraction, spectrum, white light, wavelength, object, shadow, opaque, transparent, translucent, prism, absorption, dispersion. |                                     |  |

| Opportunities to support English and maths   |
|--|
| <ul style="list-style-type: none"> <li>Skim and scan texts to retrieve information or quotes quickly and accurately</li> <li>Summarise main ideas from more than one paragraph</li> <li>Make and justify inferences with appropriate evidence from the text</li> <li>Provide reasoned justifications for their views, quoting evidence from across a text</li> </ul> |

| Curriculum Links and Enrichment Activities                        |
|---|
| <ul style="list-style-type: none"> <li>Visit / visitor</li> </ul> |