# Science Knowledge Building

| Processes and Changes | Methods | Observing and Recording | Scientific Vocabulary | Uses and Implications | Cross-Curricular (STEM) |
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| Know that shadows form when light is blocked by a solid object | Know how to demonstrate that the sun creates heat | Understand that there is a link between the time of day and length of shadows, by looking at findings | Know and understand the terms 'energy', 'sustainable', 'solar' and 'renewable' | Know that there are different ways of producing electricity and that some are better for the environment than others | Know how to measure using metre sticks or tape measures (Maths) |
| Know that light levels change throughout the day and light is needed in order to see | Know the importance of taking and recording measurements in science investigations | Know how to observe and record shadows throughout the day | Know and understand the terms 'dark', 'light source', 'nocturnal' and 'shadow' | Know some ways in which we can save electricity | Know how to measure using non-standard units of measurement (Maths) |
| **Identify simple processes and explain in basic terms how they happen** | **Know the key parts of a simple scientific method** | **Know how to use simple equipment in observing and recording** | **Understand some vocabulary linked to specific area of science e.g. animals - species** | **Know that science is used in a range of everyday situations, both in and outside the classroom** | **Identify clear connections between science, technology and mathematics for basic experimenting** |

# Light Up the World