

# Science Knowledge Building

Understand how and why shadows change size and shape	Understand and give some reasons as to why some surfaces reflect light better than others	Know how and why observations and recordings of shadows proves that they change according to the location of the light source	Know and understand more complex terms such as 'block', 'solid' and 'opaque'	Understand why some animals prefer to live in dark places	Know how to make accurate measurements of shadows using metres and centimetres
Know that shadows can change size and shape	Know that different surfaces are able to reflect light and know how to test this	Know how to make observations and record in detail changes in shadow sizes	Know and explain the words 'light' and 'shadow'	Know that shade / darkness is important to living things	Know some ways in reflection and reflective surfaces are used in safety practices
<b>Understand more complex scientific processes and know some factors that can affect change</b>	<b>Understand that methods are a key part of safe experimentation and have a secure knowledge of features</b>	<b>Know that clear observations and recordings support findings and prove theories</b>	<b>Know how scientific language learned relates to new science concepts and ideas</b>	<b>Understand how science affects our lives and the implications its use has on them</b>	<b>Understand that the links between science, technology, engineering and mathematics are key to many industries</b>
<b>Processes and Changes</b>	<b>Methods</b>	<b>Observing and Recording</b>	<b>Scientific Vocabulary</b>	<b>Uses and Implications</b>	<b>Cross-Curricular (STEM)</b>

## A World of Difference