Science Knowledge Building

Processes and Changes	Methods	Observing and Recording	Scientific Vocabulary	Uses and Implications	Cross-Curricular (STEM)
Understand how using a switch affects an electrical circuit	Understand how some components work within the circuit and how their use affects the effectiveness of it	Know how to draw a simple circuit using correct symbols	Know and understand a range of vocabulary relating to electricity, such as 'circuit' and 'current', building on learning from 'Zero to Hero'	Understand how electricity can make a range of appliances perform different tasks e.g. move, heat up, make a noise	Know that metals in general are better conductors and begin to learn which are better conductors than others
Know that circuits need to be complete in order for the components to work	Know how to safely experiment with basic components to make a circuit	Identify parts of a circuit and know the effect of an open and closed circuit	Learn new vocabulary relating to electricity, such as 'components'and 'current', building on knowledge from 'Light Up the World'	Understand how important the availability and use of electricity is in our everyday lives	Know how simple conductors and insulators work and how they can keep us safe
Understand more complex scientific processes and know some factors that can affect change	**Understand that methods are a key part of safe experimentation and have secure knowledge of features**	**Know that clear observations and recordings support findings and prove theories**	**Know how scientific language learned relates to new science concepts and ideas**	**Understand how science affects our lives and the implications its use has on them**	**Understand that these links between science, technology, engineering and mathematics are key to many industries**

Lightning Speed