COATHAM CE PRIMARY SCHOOL **LONG-TERM (YEAR) PLAN**

SUBJECT: Science				**YEAR GROUP: 6**		
Half-Term	Aut1	Aut2	Spr1	Spr2	Summ1	Summ2
Statement of Intent	Compare and give reasons for variations in how components function including the brightness of bulbs, loudness of buzzers and the on off position of switches	To identify and name the main parts of the human circulatory system and describe the functions of the heart blood vessels and blood	Evolution and Inheritance. Know living things produce offspring with variations, how these adapt to their environment and evolve over time.	To understand light sources, how we see things and how shadows are formed.	Describe how living things are classified into groups using observable characteristics.	Work scientifically: STEM designing and adapting an electrical circuit on a car. Battery in a Box project
Key Curriculum Coverage	I can associate the brightness of a lamp etc with the number of cells I can draw a circuit diagram	I can recognise the impact of diet exercise and drugs I know how nutrients and water are transported	I know how animals and plants are adapted I know that fossils provide information about living things that inhabited the earth over 1 million years ago	To know that light travels in straight lines and this creates shadows To know that we see things because objects reflect light into our eyes	Give reasons for classifying plants and animals based on specific characteristics	I can record data and results with increasing accuracy I can record data and results of increasing complexity using scientific diagrams and labels, tables and graphs.
Key Vocabulary	Conductor Insulator Circuit Cell Switch Circuit diagram Symbols Investigation Fair test	Heart Arteries Veins Capillaries Nutrients Digestive system	Fossils Evolution Inheritance Adaptation variation	Reflection Light sources Refraction Rainbow wheel shadow	Carl Linnaeus Micro organisms Keys Vertebrates Invertebrates	Data Reliable evidence Predictions Conclusion Fair test
