**Summer - Blood Heart/Circulatory Systems**

**Name main parts of the human circulatory system.**

**Describe the heart’s functions, blood vessels and blood using specific vocabulary.**

**Explain the impact of diet, exercise, drugs and lifestyle on the way their bodies function.**

**Autumn 1 - Living Things and Habitats (Classification)**

**Explain how living things are classified into groups based on similarities and differences.**

**Give reasons for choices when classifying animals based on specific characteristics.**

**Recognise that micro-organisms are part of the classification system.**

**Autumn 2 – Electricity**

**Identify a range of symbols for a simple circuit.**

**Explain how the brightness of a bulb or the volume of a buzzer depends on the voltage of cells in the circuit.**

**Explain why a circuit works or does not work based on diagrams.**

**Rossington St. Michael’s C of E Primary School.**

**‘Sticky Knowledge’ Mat Year 6**



**Disciplinary Knowledge – working scientifically**

**(throughout different units)**

**Make accurate predictions based on scientific knowledge.**

**Suggest different methods of testing including a fair test.**

**Suggest different ways of collecting evidence ensuring it is sufficient and appropriate.**

**Carry out a fair test identifying key factors to be considered including potential pitfalls beforehand.**

**Make a variety of relevant observations and measurements using varied equipment accurately.**

**Decide when and how often observations and measurements need to be checked.**

**Communicate findings in tables, charts and graphs making appropriate use of ICT.**

**Identify, trends, patterns and results that appear to be anomalies and suggest reasons for these.**

**Provide explanations for difference in observations and measurements.**

**Draw conclusions and communicate these in detail using appropriate scientific language.**

**Make practical suggestions for improving methods in their work.**

**Spring 2 – Light**

**Explain that light travels in straight lines and that objects are seen because they give out or reflect light into the eye.**

**Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.**

**Explain why some objects form shadows and others do not.**

**Spring 1 – Evolution and Inheritance**

**Explain how living organisms have changed over time and that fossils provide information about creatures that lived millions of years ago.**

**Living creatures provide offspring that have similar features to their parents but also other features that vary somewhat.**

**Explain (using examples) how animals and plants are adapted in different ways to their environment.**