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| **Animals Including Humans** | **Working Scientifically** | | |
| * Can they identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood? * Can they recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function? * Can they describe the ways in which nutrients and water and transported within animals, including humans? * Can they describe changes as humans develop to old age? | **Planning** | **Obtaining and presenting evidence** | **Considering evidence and evaluating** |
| * Can they explore different ways to test an idea, choose the best way, and give reasons? * Can they vary one factor whilst keeping the others the same in an experiment? Can they explain why they do this? * Can they plan and carry out an investigation by controlling variables fairly and accurately? * Can they make a prediction with reasons? * Can they use information to help make a prediction? * Can they present a report of their findings through writing, display and presentation? | * Can they record their measurements in different ways? (incl bar charts, tables and line graphs) | * Can they find a pattern from their data and explain what it shows? * Can they use a graph to answer scientific questions? * Can they link what they have found out to other science? * Can they report findings from investigations through written explanations and conclusions? * Can they report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations? |
| **Challenge** | | | |
| * Can they explore the work of medical pioneers, for example, William Harvey and Galen and recognise how much we have learnt about our bodies? * Can they compare the organ systems of humans to other animals? * Can they make a diagram of the human body and explain how different parts work and depend on one another? * Can they name the major organs in the human body? * Can they locate the major human organs? * Can they make a diagram that outlines the main parts of a body? | * Can they identify the key factors when planning a fair test? * Can they explain how a scientist has used their scientific understanding plus good ideas to have a breakthrough? | * Can they record their measurements and observations systematically? | * Can they draw conclusions from their work? * Can they link their conclusions to other scientific knowledge? |