Year 6 –Animals including humans

UKS2 Autumn

Breadth	Concept	Milestone 3(Years 5&6)	Knowledge	Vocabulary
• Identify and name plants and animals • Look at classification keys. • Look at the life cycle of animals and plants. • Look at classification of plants, animals and micro-organisms.	**Work scientifically** This concept involves learning the methodologies of the discipline of science. **Investigate living things** This concept involves becoming familiar with a wider range of living things, including insects and understanding life processes.	• Plan enquiries, including recognising and controlling variables where necessary. • Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. • Take measurements, using a range of scientific equipment, with increasing accuracy and precision. • Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models. • Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions. • Present findings in written form, displays and other presentations. • Use test results to make predictions to set up further comparative and fair tests. • Use simple models to describe scientific ideas, identifying scientific evidence that has	I know the human heart is a muscle that pumps blood around the body I know the structure of the heart I know the vital organs of the body I know the structure of the lungs I know how to calculate lung capacity I know lung capacity changes with height and external factors I know how to measure my pulse rate I know exercise affects our pulse rate I know how to lead a healthy lifestyle I know humans have different blood types, with some being more common than others I know nutrients and water are transported in the blood I know that human blood consists of white blood cells, red blood cells and platelets	Blood Blood groups Blood vessels Carbon dioxide/ oxygen Circulatory system Organs – heart, lungs, brain, liver, intestine, stomach and skin Diet Drugs – legal/illegal/licit/illicit Exercise Heart Lifestyle Nutrients Pumps Water Hydration Artery, vein, capillaries Pulmonary Valve , Atrium Ventricle, aorta, diaphragm, Diameter Capacity Beats per minute, Red blood cell, white blood cell, platelets Hygiene Balance/balanced Accuracy Average

		been used to support or refute ideas or arguments. **Animals and humans** • Describe the changes as humans develop to old age. • Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. • Recognise the importance of diet, exercise, drugs and lifestyle on the way the human body functions. • Describe the ways in which nutrients and water are transported within animals, including humans.		Diagram Predictions/hypothesis Method Diagram Results Conclusion Investigate Fair test