Year 5 – Biology Animals including Humans

UKS2 Summer 2

Breadth	Concept	Milestone 3 (Years 5&6)	Knowledge	Vocabulary
Plants • Look at the function of parts of flowering plants, requirements of growth, water transportation in plants, life cycles and seed dispersal. Evolution and inheritance • Look at resemblance in offspring. • Look at changes in animals over time. • Look at adaptation to environments. • Look at differences in offspring. • Look at adaptation and evolution.	Working scientifically • Work scientifically This concept involves learning the methodologies of the discipline of science. Understand plants This concept involves becoming familiar with different types of plants, their structure and reproduction.	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.	I know how to use scientific diagrams to present information I know how to use classification keys to group organisms. I know how to present written information and findings. I know that information I have learnt can be used for across all living things. I know how to use scientific diagrams to present information I know how to present written information and findings. I know that the mass of a baby with change over time I know how to read line graphs accurately I know that I can look for patterns and trends in the data	Embryo Baby Infant Child Adolescent Adult Old age Warm blooded Land Water Live babies Mammal Life cycle Stage Changes Gestation Length Gestation period Days Months Years Predict Axis Line graph Label Conclusion Results Question Pose Pattern Findings Growth Rapid Change Line graph

• Look at changes to the human skeleton over time. Animals and humans • Look at nutrition, transportation of water and nutrients in the body, and the muscle and skeleton system of humans and animals. • Look at the digestive system in humans. • Look at teeth. • Look at the human circulatory system. All living things • 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. Look at reproduction in plants and animals,		•Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments. Relate knowledge of plants to studies of evolution and inheritance. • Relate knowledge of plants to studies of all living things.	I know that height can change with age I know that we are all different I know that I can look for trends and patterns I can make a prediction I can pose a question I know the different stages of the human life cycle I know the changes that can happen for boys and girls during puberty I can describe the last stage of the human life cycle	Pattern Axis Labels Change over time Results Findings Conclusions Predictions Question Investigate Weight/ mass Infancy Child Babies Trend Increase Decrease Measure compare Changes Puberty Physical changes Emotional changes Pubic hair Voice Breasts Penis Periods Menstruation Wet dreams Testicles Ovaries Womb Egg sperm

and human growth and changes. • Look at the effect of diet, exercise and drugs.				
	Understand animals and humans This concept involves becoming familiar with different types of animals, humans and the life processes they share.	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.	I can order the stages of human development. I can name the 6 stages of human development. I can describe the 6 stages of human development. I know how to use scientific diagrams to present information I know how to present written information and findings. I know that different animals have different gestations	
	Investigate living things This concept involves becoming familiar with a wider range of living things, including insects and understanding life processes.	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. • Describe the life process of reproduction in some plants and animals. • Describe how living things are classified into broad groups according to common observable characteristics. • Give reasons for classifying plants and animals based on specific characteristics.		Mammal Amphibian Insect Bird Lifecycle Reproduction Birth Growth Movement Respire Reproduce Nutrition Sensitive Excrete Characteristics Observe Classify