



409995A

knowledge and experience. Make predictions Evaluate risks Apply mathematical concepts and calculate results Make and record observations Use and derive simple equations Cells and Organisation Cells as the fundamental unit of living organisms, including how to observe, interpret and record cell structure using a light microscope. ANIMALS inc B4.2 Describe the	
calculations. Use appropriate techniques, apparatus and materials during lab work paying attention to cell membrane, cytoplasm, nucleus, vacuole, mitochondria and chloroplasts. The similarities and differences human circularities and differences	the digestive system in ammethe main parts of the atory system, and describe of the heart, blood vessels



Curriculum Map - Year 7 - Biology (2023-24)

1300	42 Ch	方面

Topic name	Term	Sk	tills developed	Link to NC subject content	Prior learning	Next link in curriculum
	Spring	•	Ask questions Evaluate risks Understand that scientific methods and theories develop as earlier explanations are modified to take	Structure and function of living organisms Reproduction	Links from KS2: LIVING THINGS and their HABITATS B5.1: Describe the life process of reproduction in some plants and animal	Y9 Inheritance & Variation Links to GCSE topic:
		•	explanations are modified to take account of the new evidence and ideas Present observations and data using appropriate methods, including tables and graphs Interpret observations and data including identifying patterns and using observations, measurements and data to draw conclusions. Present reasoned explanations, including explaining data in relation to predictions and hypotheses. Evaluate data, showing awareness of potential sources of random and systematic error. Identify further questions arising from their results. Ask questions and develop a line of enquiry based on observations of the real world alongside prior knowledge and experience. Make predictions using scientific knowledge and understanding. Use appropriate techniques, apparatus and materials during lab work paying attention to health and safety Make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements.	 Reproduction in humans (as an example of a mammal), including the function of the male and female reproductive systems, menstrual cycle (without details of hormones), gametes, fertilisation, gestation and birth, to include the effect of maternal lifestyle on the foetus through the placenta Genetics and evolution Inheritance, chromosomes, DNA and genes Hereditary as the process by which genetic information is transmitted from one generation to the next Differences between species The variation between individuals within a species being continuous or discontinuous, to include measurement and graphical representation of variation (Basic principles taught in Y7 – spirals to Y9 Inheritance and Variation) 	B6.3 EVOLUTION and INHERITANCE Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents	4.1.2 Cell division 4.5.3.1 Hormonal coordination in humans (taught in Y10) 4.6.1 Reproduction 4.6.2 Variation and evolution (taught in Y11)





389 %	今安全

Topic name	Term	Ski	ills developed	Link to NC subject content	Prior learning	Next link in curriculum
Plant Reproduction	Summer		Evaluate risks Understand that scientific methods and theories develop as earlier explanations are modified to take account of the new evidence and ideas Present observations and data using appropriate methods, including tables and graphs Interpret observations and data including identifying patterns and using observations, measurements and data to draw conclusions. Present reasoned explanations, including explaining data in relation to predictions and hypotheses. Evaluate data, showing awareness of potential sources of random and systematic error. Identify further questions arising from their results. Ask questions and develop a line of enquiry based on observations of the real world alongside prior knowledge and experience. Make predictions using scientific knowledge and understanding. Use appropriate techniques, apparatus and materials during lab work paying attention to health and safety Make and record observations and measurements using a range of methods for different investigations; and evaluate the reliability of methods and suggest possible improvements.	Structure and function of living organisms Reproduction Reproductions in plants, including flower structure, wind and insect pollination, fertilisation, seed and fruit formation and dispersal, including quantitative investigation of some dispersal mechanisms. Interactions and interdependencies Relationships in an ecosystem The interdependence of organisms in an ecosystem (insect pollinated crops) The importance of plant reproduction through insect pollination in human food security How organisms affect, and are affected by, their environment, including the accumulation of toxic materials.	Links from KS2: B3.1 PLANTS Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. LIVING THINGS and their HABITATS B5.1: Describe the life process of reproduction in some plants and animal B6.3 EVOLUTION and INHERITANCE Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents Recognise that environments can change and that this can sometimes pose dangers to living things.	V8 Photosynthesis Links to GCSE topic: 4.2.3 Plant tissues, organs and systems 4.5.4 Plant hormones (taught in Y10) 4.6.1 Reproduction 4.6.2 Variation and Evolution (taught in Y11) 4.7.1 Adaptations, interdependence and competition. (taught end Y10 / start Y11)