



	Lessons Sequence					
TOPIC (S) Living Organisms	1. Cells and their organelles 2. Microscopy 3. Diffusion 4. Specialised cells 5. Unicellular organisms		6. Cells, tissues & organs 7. Mid topic assessment 8. The skeleton 9. Joints 10. Muscles 11. Measuring forces exerted by muscles		12. Digestive System 13. Nutrition 14. Testing for nutrients 15. Effect of alcohol 16. Effect of drugs 17. Effect of poor nutrition 18. End of topic test	
Knowledge & Skills development	<ul style="list-style-type: none"> How to use a microscope Label an animal & plant cell with organelles. Explain the function of each organelle. Define and explain diffusion giving examples of substances moving by diffusion. Define a specialised cell & explain why it is specialised. Organisation of cells, tissues, organs and organ systems. Label and describe each part of the digestive system 			<ul style="list-style-type: none"> Explain the role of digestive enzymes including mode of action & products. Recall how to perform food tests and the positive and negative results for each Describe the function of the skeleton. Describe the differing types of joints and identify them on a human body. Explain how antagonistic muscle pairs work. Explain the effects on the human body of drugs, alcohol and poor nutrition 		
Assessment / Feedback Opportunities	Targeted questioning throughout topic	Teacher assessment of practical skills during investigation - verbal	AWOL assessment – formative teacher assessment in students books	Mid topic assessment – formative assessment	Homework topic quiz – formative assessment	End of topic assessment – teacher summative assessment
Cultural Capital	<ul style="list-style-type: none"> Using a microscope Testing foods to determine the nutrients that they contain 					
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	<ul style="list-style-type: none"> Organ transplants Working in groups during practical work or research tasks 					
Reading opportunities	<ul style="list-style-type: none"> Work of Robert Hooke on the microscope. Newspaper articles organ transplants Recommended Read: Cells Organisation Part 1 (Oaka Books) 					
Key Vocabulary	Independent Variable, Dependent Variable, Control Variables, Method, Conclusion, Precaution, Evaluation, Reliable, Precision, Valid, Anomaly Cell, tissue, organ, muscle, skeleton, joint, digestion, enzyme, respiration, magnification, slide, cover, slip, microscope, vacuole, membrane, nucleus, cell wall, chlorophyll, cytoplasm, chloroplast, diffusion, transplant, specialised, stem cells					
Digital Literacy	SharePoint resources including topic quiz					

	Possible use of excel to plot graphs and analyse data, powerpoint,word, etc to present information, internet for research
Cross-Curricular Links	Physical Education, Food Technology Numeracy/Maths – averages (means), reading scales, graph plotting, lines of best fit, using and rearranging equations, using scientific calculators
Careers	Nursing, medicine, physiotherapy, research scientist, nutritionist