	Year 9	Pathway 2/3/4	Science - Spring Term 1					
Learning Intention: Biology - Living Things and Their Habitats          Life processes         To recall the characteristics of living things, to prepare and look at slides of cells and become competent in using the microscope.: To recall the Skeletal and Muscular Systems, Nutrition, Digestion and Excretion. To gain a better understanding of the importance of a good diet, respiration and to investigate the effects of exercise. To understand photosynthesis including the word equation for photosynthesis.								
Key knowledge that should be learned during this SoW		All (Pathway 2)	Most (Pathway 3)	Some (Pathway 4)				
Concept:								
Knowledge:								
Key Skills:								
Language and/or communication skills:								
Curricular Links								

	Year 9	Pathway 2/3/4	Science - Spring Term 2				
<b>Learning Intention:</b> Starting work on OCR Entry Level Certificate: OCR ELB3 - <u>Control systems</u> This topic introduces students to the concept of balancing the body's internal environment, in the contexts of body temperature, water level, and blood glucose level. This is to help them understand that changes in our surroundings can affect our body's internal environment. That the body's internal environment can change and that the body tries to control this change, using temperature regulation as an example.							
Key knowledge that should be learned during this SoW		All (Pathway 2)	Most (Pathway 3)	Some (Pathway 4)			
Concept:		They will test different hypotheses, measure and record different variables. Students will then have the opportunity to evaluate their results to find out there is a link between the dependent and independent variables. They will also begin to make meaningful connections in maths, science, and technology content to solve real-world problems through hands-on learning activities and creative design.					
Knowledge:		To be able to recognise that scientists can use their knowledge of Maths, Engineering and Technology to solve problems.	To be able to understand that scientists can use their knowledge of Maths, Engineering and Technology to solve problems.	To gain understanding of how scientists can use their knowledge of Maths, Engineering and Technology to solve problems.			
Key Skills:		<ul> <li>To investigate which balloon will travel the furthest when moving on different types of strings.</li> <li>Making a string telephone</li> </ul>	<ul> <li>To measure and record data accurately( Runny lava investigation)</li> <li>Investigating absorbency of different materials</li> </ul>	<ul> <li>To measure , record data, and evaluate data accurately( Runny lava investigation)</li> <li>Investigating absorbency of different materials</li> </ul>			

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	<ul> <li>To use a choice chamber to investigate the choices regarding habitat made by woodlice.</li> <li>Use the Model of a teeth investigation to learn how to brush the teeth correctly.</li> <li>Fruit painting practical</li> </ul>	<ul> <li>To investigate the effects of counter balances on how far a missile travels.</li> <li>To investigate the rate at which different types of chocolate melt.</li> <li>Build a rocket investigation.</li> <li>Limited support when taking part in practical task</li> </ul>	<ul> <li>To investigate the effects of counter balances on how far a missile travels.</li> <li>To investigate the rate at which different types of chocolate melt.</li> <li>To find out what variable they need to control to get their Rocket to travel the furthest during (Build a rocket investigation).</li> <li>Little/no support when taking part in practical task</li> </ul>
Language and/or communication skills:	<ul><li>Control variables</li><li>Prediction</li></ul>	<ul><li>Dependent</li><li>Control variables</li></ul>	<ul> <li>Independent variable</li> <li>Gravity</li> <li>Air resistance</li> <li>Thrust</li> </ul>
Curricular Links	Links to other learning within the subject are: Science/Resistant Materials/ PSHCE/PE		