

Learning Plan 3		Subject/Pwnc: Gwyddoniaeth		Year/Blwyddyn: 7	
<p><b><u>The Four Purposes in Science and Technology:</u></b></p> <p><b>Ambitious, capable learners</b> who: set themselves high standards; seek and enjoy challenge; are increasingly knowledgeable and skilful; are questioning; enjoy solving problems; can communicate effectively; can explain the ideas and concepts; can use number effectively; understand how to interpret data and apply mathematical concepts</p> <p><b>Enterprising, creative contributors</b> who: connect and apply their knowledge and skills to create ideas; think creatively to reframe and solve problems; identify and grasp opportunities; take measured risks</p> <p><b>Ethical, informed citizens</b></p> <p><b>Healthy, confident individuals</b> who: face and overcome challenge; have the skills and knowledge to manage everyday life</p>					
<p><b>Knowledge focus/what matters:</b></p> <p>Being curious and searching for answers. The world around us is full of living things which depend upon each other for survival.</p>					
Learning objective/key question	What will I know and be able to do? I can...	How will I develop my skills? (Success Criteria)		Homework/Gwaith cartref to support progress	
Weeks 1 - 2:  Conduct practicals safely in the lab  How can we measure volume, temperature and mass accurately?	<ul style="list-style-type: none"><li>Recognise the hazard symbols and understand the key terms describing chemicals (toxic etc.). Establish safe laboratory practice.</li><li>Design and produce a model animal cell. Pupils will be given guidelines on producing a model animal cell.</li></ul>	I can carry out practical activities involving timed events and explain which unit of time is the most appropriate.		Wk 1	Set:  Due:
		I can read and interpret scales or divisions on a range of measuring instruments.		Wk 2	
		I can measure and record temperatures involving positive and negative readings.			Set:

				Due:
<p>Weeks 3 - 4:</p> <p>I can represent data using line graphs.</p>	<ul style="list-style-type: none"> <li>Represent the data collected from practicals in the form of tables and then line graphs.</li> <li>Interpreting graphs</li> </ul>	<p>I can represent data using tables and line graph</p> <p>I can collect both quantitative and qualitative data.</p> <p>I can explain the conclusions of a graph from given data.</p>	Wk 3	Set: Due:
			Wk 4	Set: Due:
<p>Weeks 5 -6</p> <p>Observe cells using microscopes</p>	<ul style="list-style-type: none"> <li>Use a light microscope to observe and draw both a red onion cell and a cheek cell.</li> <li>Design and produce a model animal cell.</li> </ul>	<p>I can use a light microscope to examine both an animal and a plant cell.</p> <p>I can classify parts of the cell and describe their function.</p> <p>I can plan and construct a model animal cell.</p>	Wk 5	Set: Due:
			Wk 6	Set: Due:
<p>Weeks 7 – 8</p> <p>Specialised cells and reproduction</p>	<ul style="list-style-type: none"> <li>Explain how cells are specialised and how this is connected to their role.</li> <li>Appreciate the role of specialised cells in human reproduction.</li> </ul>	<p>I can explain and infer how certain features of cells are linked to their functions.</p> <p>I understand the biology of human reproduction in terms of the special cells (an egg and a sperm).</p>	Wk 7	Set: Due:
			Wk 8	Set:

				Due:
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