


Learning Plan 2		Subject/Pwnc: Gwyddoniaeth	Year/Blwyddyn: 7		
<p><u>The Four Purposes in Science and Technology:</u></p> <p>Ambitious, capable learners 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>Enterprising, creative contributors 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>Ethical, informed citizens</p> <p>Healthy, confident individuals who: face and overcome challenge; have the skills and knowledge to manage everyday life</p>					
<p>Knowledge focus/what matters:</p> <p>Being curious and searching for answers. The world around us is full of living things which depend upon each other for survival. Pupils have a strong appreciation of animals, especially from their depiction on screen. Quite often this is backed up by accurate research from real life knowledge. Pupils will link (real to reel) actual with portrayed habitats.</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		
<p>Weeks 1 - 2:</p> <p>How can we appreciate the complexity of living things on Earth?</p> <p>What tools can we use to explain the variation?</p>	<ul style="list-style-type: none">Recognise and appreciate the complexity of both animals and plants.Illustrate variety within a species by using models and examples from both the natural world and theoretical.	<p>I can give examples of varieties within a species.</p> <p>I can use models to demonstrate this variety.</p>	Wk 1		

			Wk 2	Set: Due:
Week 3 - 4: Place order on living organisms by grouping them into kingdoms.	<ul style="list-style-type: none"> Classify all living things into the five kingdoms. Understand the history and usefulness of the Linnean system of classification. 	<p>I can use keys to place a living thing into one of the five kingdoms. I appreciate the need for a global classification system and how the binomial naming system works.</p> <p>I can 'Write Like A Scientist' a proposal for accurately adapting a habitat into an animation movie Eg Happy Feet/Lion King</p>	Wk 3	Set: Due:
Weeks 5 -6 Light	<ul style="list-style-type: none"> Compare and contrast the difference between luminous and non-luminous objects. Understand the properties of light to work with reflection and refraction. Explain how colours can mix i.e. primary and secondary. 	<p>I can explain how the properties of light will affect how they are experienced.</p> <p>By manipulating the properties of light, I can produce a desired effect.</p> <p>I can start to form my own strategies and use them to find solutions.</p>	Wk 4	Set: Due:
Week 7 Enrichment Activities	<ul style="list-style-type: none"> Plan a practical to prove a theory based on scientific evidence. I can create an appropriate methodology to perform practical work. Plot results on a graph and use this to draw conclusions 	<p>I can ask inquisitive questions based on prior knowledge.</p> <p>I can create my own strategies and use them to find solutions.</p> <p>I can interpret data collected and draw conclusions.</p>	Wk 5	Set: Due:

