Learning Plan 2	Subject/Pwnc: Gwyddoniaeth	Year/Blwyddyn: 8

The Four Purposes in Science and Technology:

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

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

Ethical, informed citizens

Healthy, confident individuals who:
face and overcome challenge; have the skills and knowledge to manage everyday life

Knowledge focus/what matters:

Being curious and searching for answers. The world around us is full of living things which depend upon each other for survival. Appreciate the immense timescales involved with geological time through drafting a story about the rock cycle. Science helps answer the how questions of life but is limited with the why questions. The issue of organ donation highlights the stark difference between fact and opinion.

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 - 3: Are all rocks the same and can they change?	• Categorize rocks as belonging to one of three types: igneous, sedimentary or metamorphic rock. • Appreciate the roles that heat, and pressure have in rocks changing over time.	I can explain how rocks interchange over time using key terms and the rock cycle. I can apply this knowledge to draft (&then redraft) a story on how 'Reggie the Rock'	Wk 1	Set:

What are the geological processes that causes these changes?	• Evaluate the effect of acid rain pollution on sedimentary rock.	moves through the rock cycle using a WAGOLL text. I can investigate the effect of acid rain on limestone.	 Wk 2	Due: Set: Due:
Week 4 - 6: 'Mind over matter' – how does the mind interact with the body?	• Analyse how the brain senses stimuli from the environment and reacts to that data. • Defend a decision on which people should receive an organ donation.	I can apply knowledge of the nervous system to the reaction time investigation. I can develop an argument for why some people should receive an organ donation.	Wk 3	Set: Due:
Week 7 Enrichment Activities	• 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	I can ask inquisitive questions based on prior knowledge. I can create my own strategies and use them to find solutions. I can interpret data collected and draw conclusions.	Wk 5	Set: Due: