



Fy nhaith ddysgu yn Ngwyddoniaeth/Thechnoleg/TGCh

My learning journey in **Science** and Technology/ICT



Uned ymholi/Enquiry unit: *Do you have what it takes to be an **Agricultural Scientist**?*

Gwybodaeth a dysgu blaenorol/Prior knowledge and learning:

Previously, you will have described how living things compete for specific resources, how the features of organisms allow them to live, grow and reproduce for survival as well as understanding how your actions and the actions of others impact on the environment and living things.

Yn ystod eich taith mi fyddwch yn ...

During your journey you will ...

- Explore different careers within STEM, including discovering the desirable skills and attributes of an Agricultural Scientist and Farmer
- Compare and contrast organic and conventional farming methods
- Consider the advantages and disadvantages of intensive farming
- Identify some of the factors that affect the price of food in the UK
- Outline the factors affecting local and global future food security
- Explore where our food comes from and predict how farming may change in the next 100 years
- Explain the importance of finding sustainable ways to feed the population
- Research the idea of farming insects and the role they can play in the food system
- Identify key minerals and conditions that plants require to grow

Yr ydym ar y daith hon oherwydd ...

We are on this journey because ...

- There are amazing career pathways and future opportunities for all of us in STEM
- Welsh farmers manage over 80% of the land in Wales and contribute significantly to our economy, both directly as primary producers, forming the foundation of the £6 billion food and drink industry, and indirectly, safeguarding our key natural resources for the tourism sector in Wales, worth over £2.8bn.
- By learning about farming, we can learn valuable lessons about where our food comes from, the benefits of eating fresh and healthy produce and how to care for animals and the environment
- There are lots of opportunities for us to act as ethical, informed citizens and engage in contemporary debates and issues such as the environmental impact and challenges of feeding a growing population, the factors that affect the cost of food & sustainable farming

Eich tasgau/Your tasks:

Tasg/k 1: **Summative Assessment:** Pre and post topic quiz

Tasg/k 2: **Home Learning Task:** Design your own Farm!

Tasg/k 3: **Practical Skills:** Cress Seed Investigation

Tasg/k 4: **Creative Assessment:** Careers Focused Task

