



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 a Pharmacist?*

Gwybodaeth a dysgu blaenorol/Prior knowledge and learning:

Previously, you will have identified questions that can be scientifically investigated and suggested suitable methods of inquiry, as well as suggesting conclusions and evaluating methods as a result of carrying out those inquiries. You would have also studied how changes in materials can affect their properties and uses under different conditions.

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 a Pharmacist
- Recognise a range of hazard symbols
- Explore what the pH scale is, identifying the key numbers and colours used to distinguish between acid, alkali and neutral
- Outline what happens in a neutralisation reaction, predicting pH changes and giving real-life examples (i.e. indigestion)
- Form word and balanced symbol equations to show what happens when an acid and alkali mix, an acid and a metal react and for an acid and carbonate reaction
- Investigate how indicators can be used to identify whether a substance is acid, alkali or neutral
- Explore the effectiveness of different indigestion remedies
- Research the effects of acid rain on the environment

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
- Acids and alkalis are all around us, including a diverse array of food, drink and domestic products. These chemicals play an important role in our bodies, lives and the environment around us which provides us with many opportunities to explore real contexts and applications of chemistry
- Key issues such as the acidification of our oceans & acid rain are vital topics to discuss as ethical, informed citizens
- As healthy, confident individuals, we are learning how we can stay safe during our scientific experiments, by taking measured decisions and managing risk
- Through exploring different scenarios such as acid spills, bee stings and indigestion, we are thinking creatively to reframe and solve problems

Eich tasgau/Your tasks:

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

Tasg/k 2: **Home Learning Task:** pH scale and Hazcard label

Tasg/k 3: **Practical Skills:** Neutralisation Investigation

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

