

Digital Technology

My learning journey in ICT



Uned ymholi/Enquiry unit:

Creativity and real world digital applications

Gwybodaeth a dysgu blaenorol/Prior knowledge and learning:

This learning journey is designed to show clear progression in **Year 8 ICT** from advanced spreadsheet modelling in **Excel** to digital media creation using **Adobe Photoshop, Illustrator and Animate**.

Yn ystod eich taith mi fyddwch yn …

During your journey you will …

Knowledge in Excel

- Understand relative and absolute cell references
- Know when to use different functions
- Understand data structures and lookup tables
- Understand how businesses use spreadsheets

Knowledge in Photoshop

- Difference between bitmap and vector graphics
- Image resolution and file formats
- Copyright and digital ethics
- Professional use of Photoshop

Knowledge in Illustrator

- How vector graphics are created
- Advantages of vectors over bitmap images
- Design principles:
  - Balance
  - Contrast
  - Alignment
  - Hierarchy

Knowledge in Animate

- Principles of animation
- Keyframes and timelines
- Motion and shape tweening
- Animation in industry and gaming

Yr ydym ar y daith hon oherwydd …

We are on this journey because …

Skills in Excel

- Create complex formulas
- Use:
  - SUM
  - AVERAGE
  - MIN/MAX
  - COUNT and COUNTA
  - IF statements
  - SUMIF
  - COUNTIF
- Apply conditional formatting
- Create professional spreadsheet layouts

Skills in Photoshop

- Work with layers
- Remove and replace backgrounds
- Retouch photographs
- Add effects and typography

Skills in illustrator

- Use the Shape Builder Tool
- Use the Pen Tool
- Create logos
- Use colour palettes effectively
- Create scalable artwork

Skills

- Create animations using timelines
- Apply motion tweens
- Add sound effects

Your tasks…..

No.	Title of work	Started	Completed
1	Star clothing spreadsheet tasks		
2	Build Excel order system		
3	Simple drawings in adobe illustrator		
4	Modify images in photoshop		
5	Create own characters in Illustrator		
6	Animate character in Animate		