



Year 13 BTEC Digital IT

Summer Independent Learning (SIL)

Summer Independent learning : Y13

Objective:

To help you build skills in IT and digital literacy.

Task Overview: "Design a Digital Solution"

You will complete a mini-project that introduces you to core IT concepts including research, digital

tools, cybersecurity awareness, and basic programming logic.

Part 1: Research & Report (Digital Literacy & IT Systems)

Task: Write a short report (300–500 words) on the following:

- What is the role of IT in modern businesses?
- Identify 3 emerging technologies (e.g., AI, cloud computing, IoT) and explain how they are changing the workplace.
- What are the basic components of an IT system (hardware, software, data, people, processes)?

Skills Developed: Research, writing, understanding IT systems.

Part 2: Cybersecurity Awareness Poster

Task: Create a digital poster (using Canva, PowerPoint, or Google Slides) that explains:

- What is cybersecurity?
- 3 common cyber threats (e.g., phishing, malware, weak passwords)
- 3 tips to stay safe online

Skills Developed: Digital design, communication, cybersecurity basics.



Part 3: Logic & Programming Challenge

Task: Complete a basic logic puzzle or flowchart activity:

- Create a flowchart for a simple task (e.g., making a cup of tea, logging into a computer).
- Optional: Try a beginner coding challenge on Scratch or Replit.

Skills Developed: Computational thinking, problem-solving, basic programming logic.

Submission Instructions:

Submit your work as a Word document or folder with your name.

Include your report, poster, and flowchart (or screenshot of your coding project).

Bring it with you on your first day back.

Optional Extension:

Explore a free online course like:

- Google Digital Garage – Fundamentals of Digital Marketing
- BBC Bitesize – Computer Science