

**Knowledge and skills development:**

- Analysing problems in computational terms including designing, writing and debugging programs to solve problems
- Applying fundamental principles and concepts of Computer Science including abstraction, decomposition, logic, algorithms and data representation
- Thinking creatively, innovatively, analytically, logically and critically
- Understanding the components that make up digital systems and how they communicate with one another and other systems; understanding the impacts of digital technology to the individual and to wider society
- Applying maths skills relevant to Computer Science

**Pathways:**

- A Level:**
- Computer Science
- T Level (Level 3):**
- Cybersecurity & the Digital Environment
  - Computing & the Digital Environment
  - Digital Support Services
- Vocational (Level 3):**
- Software Development & Cybersecurity
  - Digital Infrastructure & Networking
  - Computer Games Development

