



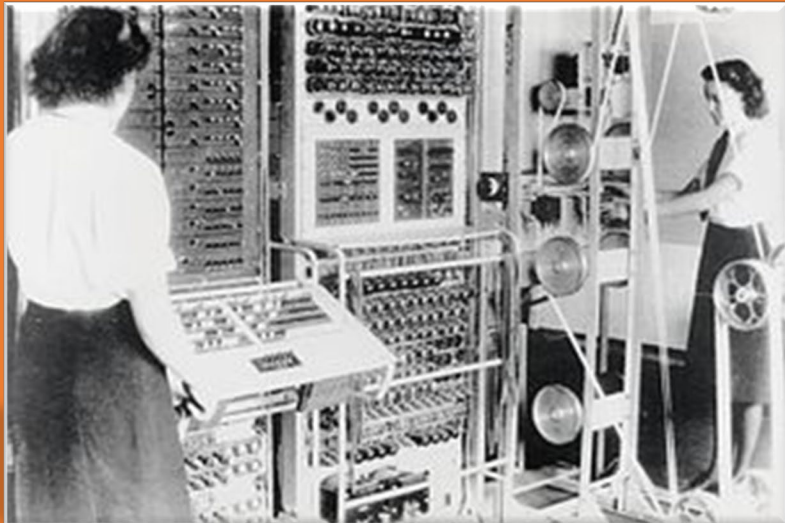
# Computer Science

GCSE Computer Science &  
Digital Information Technology





What is Computer Science?



## Problem-Solving real-life issues with technology.

For example one of the first computers to be invented was called the Colossus and it was invented to solve a specific problem which was to crack German encrypted messages during WW2.

But today it is used to solve all sorts of problems.

**Communication:** How to communicate to people from all around the world.

**Entertainment:** How to explore the world from the comfort of your own home.

**Automation:** How to speed up productions factories.

**Travel:** How to get from point A to B in the fastest time.



**Social Media & Marketing**

Network Administrator

Multimedia Programming

IT Consultancy

Security Consultant

Website Administrator

Database Administrator

**Game development**

Content provider

**App Development**

Telecommunications

**Data Analysis**

Web Development

Technical Support

**Software Engineer**

Risk Management

IT Sales

**Artificial Intelligence  
Development**

**Computer Forensics**

Cyber Security Officer

Hardware engineering

Search Engineer





# Qualifications In IT/Computer Science

## DIT (Digital Information Technology)

### Assessment

**Component 1:** Exploring User interface Design Principles and Project Planning Techniques (30%)

**Component 2:** Collecting, Presenting and Interpreting Data (30%)

**Component 3:** Effective Digital Working Practices (40%)

### Topics Covered

Hardware, Software, Networks, Cyber Security, Interfaces, Data Processing and Presentation.

## GCSE Computer Science

### Assessment

**Paper 1: Computer Systems (50%)**

**Paper 2: Computational Thinking, Algorithms and Programming (50%)**

### Topics Covered

Hardware, Software, Networks, Data representation, Programming, Software Design, Database Queries.



Is IT & Computer Science right for you?

**Persistence**

**Attention to detail**

**Problem solving**

**Thinking outside  
the box**

**Exciting**

**HARD**

**Inquisitive**

**Doesn't give up**

**Challenging**

**Logical Thinking**