

ICT at Norbury High

Overview

Students in Year 13 complete the Pearson BTEC Level 3 National Extended Certificate in Information Technology. This qualification is equivalent to one A Level and provides students with a strong foundation in both the theoretical and practical aspects of modern information technology. The course is designed to reflect current industry practice and prepares students for higher education, apprenticeships or direct employment within the digital sector. Assessment is a combination of externally examined units and internally assessed coursework, enabling students to demonstrate applied knowledge, technical skills and independent project management.

Key Stage 5

Year 13 BTEC ICT

UNIT 1: Information Technology Systems

In this unit, students develop an in-depth understanding of how IT systems function within organisations. They study hardware and software components, networks, data management, cybersecurity, encryption and system vulnerabilities. Students also examine the impact of IT systems on individuals and organisations, including ethical and legal considerations. They learn how data is transmitted and stored securely, and they evaluate the effectiveness of different system solutions in real-world contexts.

UNIT 2: Creating Systems to Manage Information

This unit focuses on relational database development. Students design and develop a fully functional database solution to meet a specific organisational need. They learn about normalisation, relationships between tables, primary and foreign keys, validation, verification and query creation. Students must analyse a scenario, design a structured solution and implement it using appropriate software tools. This unit develops technical accuracy, logical thinking and structured problem-solving skills.

UNIT 5: Data Modelling

In Unit 5: Data Modelling, students develop advanced spreadsheet skills to design and create effective data models that support business decision-making. This internally assessed unit focuses on applying analytical and technical skills to solve realistic organisational problems using spreadsheet software.