

ICT / Computing Department Curriculum Overview

Year 7 Year 8 Year 9

KEY STAGE 3
UK National Curriculum

| | | |
|--------------------------|-------------------------|-----------------------------|
| VLE Introduction | Spreadsheets | Future Technology |
| PC Basics | Control Systems | Small Basic |
| Web Awareness & E-Safety | Algorithms & Flowcharts | HTML |
| Sequencing & Flowcharts | Python | Hardware / Software / Logic |
| Algorithms & Scratch | Graphics & Imaging | Multimedia |
| Text & Graphics | 3D Modelling | Business and ICT |
| Kodu Programming | | |

Year 10 Year 11

KEY STAGE 4
CIE igcse Computer Science

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|---|-----------------------------|
| Binary Systems & Hexadecimal | High- & Low-Level Languages |
| Communication & Internet Technologies | Security & Ethics |
| Logic Gates & Logic Circuits | Problem-solving & Design |
| Operating Systems & Computer Architecture | Programming Concepts |
| Input & Output Devices | Data Structures |
| Memory & Data Storage | |

Databases

Pseudocode & Flowcharts

Year 12 Year 13

KEY STAGE 5
CIE As/A Level Information Technology (IT)

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|---|---------------------------|
| Data, Information, Knowledge & Processing | Emerging Technologies |
| Monitoring & Control | The Role of IT in Society |
| E-Safety & Health and Safety | Networks |
| The Digital Divide | Project Management |
| Using Networks | System Life Cycle |
| Expert Systems | Graphics Creation |
| Hardware & Software | Animation |

Sound & Video Editing

Spreadsheets

Database & File Concepts

Mail Merge

Programming for the Web