



Curriculum Journey 2025-2026
Subject: Computer Science
Exam board: OCR J277

Year 11	Half Term 1	Half term 2	Half Term 3	Half Term 4	Half term 5	Half Term 6
Topic	Memory and storage Robust programs	Computer network, connections and protocols Programming fundamentals	Network security Programming fundamentals	Ethical, legal, cultural and environmental impacts of digital technology Programming fundamentals	Revision	Exam leave
Vocabulary	Character set ASCII Unicode Pixel Metadata Colour depth Resolution Sampling Compression Defensive design Testing	LAN WAN Client server Peer-peer Network hardware DNS Hosting Cloud Topology Protocol Layers Modes of connection	Malware Social engineering Brute force DoS Data interception SQL injection Penetration testing Firewall User access level Encryption Physical security	Ethical Legal Cultural Environmental Privacy Legislation Open source Proprietary	Algorithm Data type Networking Programming Binary Cyber security Data structure Computational thinking Hardware Software	
Assessment	Milestone 1 Topic tests x2 Recall rally	Summative assessment 1 Topic tests x2 Recall rally	Milestone 2 Topic tests x2 Recall rally	Milestone 3 Topic tests x2 Recall rally	Topic tests x2 Recall rally	



Links to prior learning	KS3 curriculum Y10 H1-4 programming skills	KS3 curriculum Y10 H1-4 programming skills	KS3 curriculum Y10 H1-4 programming skills Y11 HT3	KS3 curriculum Y10 H1-4 programming skills	KS3 curriculum All KS4 topics	
Catholic Social Teaching		Rights & responsibilities Life & dignity	Rights & responsibilities Life & dignity	Rights & responsibilities Option for the poor Life & dignity Care for creation	Rights & responsibilities Life & dignity	
Careers and Personal Development links	Career links: Engineering and software development Personal development links: Analytical thinking, problem solving and digital literacy	Career links: Engineering and programmers Personal development links: Problem solving, Teamwork, communication, logical thinking, and digital literacy	Career links: Engineering and programmers Personal development links: Problem solving, Teamwork, communication, logical thinking, and digital literacy	Career links: Cyber security, law, sustainability and digital communication Personal development links: Problem solving, ethical reasoning, global awareness, communication skills and decision making.	Career links: Careers in CS Personal development links: Problem solving, ethical reasoning, global awareness, communication skills and decision making.	