

Key Stage 5 Curriculum Overview

Subject: Computer Science

Year 12

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Assessment	
Thinking Abstractly (5)	Programming Techniques – Recursion, global/local variables, modularity, functions and procedures (17)	Systems Software (6)	Compression, Encryption and Hashing (7)	Computational methods (10)	Software Development (10)	Multiple Choice Questions	
Thinking Ahead (5)		Applications Generation (8)	Databases (6)	Algorithms (10)	Computing related legislation (5)	Past exam questions	
Thinking Procedurally (5)		Types of Processor (7)	Types of Programming Language (procedural and OO) (20)	Networks (5)	Networks 2 (5)	Moral and ethical issues (5)	Programming to a brief
Thinking Logically (5)		Input, Output and Storage (8)	Data Types (8)	Web Technologies (7)	Programming Techniques (5)	Algorithms (5)	Systems development (and analysis)
Thinking Concurrently (5)		Systems Software (3)		Algorithms (5)		Preparation for programming project (5)	Programming Skills tests
Programming Techniques - constructs (5)		Data Representation (5)		Programming Techniques (5)			Quizzing
Computer Architecture (5)		Boolean Algebra (10)					Parson's Problems

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Programming Project: Analysis and Design	Programming Project: Iterative Development	Programming Project: Testing and Evaluation	Exam preparation	Exam preparation	N/A	Multiple Choice Questions Past exam questions Programming to a brief Systems development (and analysis) Programming Skills tests Quizzing Parson's Problems