

# 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) Types of Processor (7) Input, Output and Storage (8) Systems Software (3) Data Representation (5) Boolean Algebra (10)	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 Programming Language (procedural and OO) (20)	Networks (5)	Networks 2 (5)	Moral and ethical issues (5)	Programming to a brief
Thinking Logically (5)		Data Types (8)	Web Technologies (7)	Programming Techniques (5)	Algorithms (5)	Systems development (and analysis)
Thinking Concurrently (5)			Algorithms (5)		Preparation for programming project (5)	Programming Skills tests
Programming Techniques - constructs (5)			Programming Techniques (5)			Quizzing
Computer Architecture (5)						Parson's Problems

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**Year 13**

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Assessment
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