

		Autumn		Spring		Summer	
		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Knowledge	1.1.1 Structure and function of the processor 1.1.2 Types of processor	<ul> <li>1.1.3 Input, output and storage</li> <li>1.2.2 Application</li> <li>Generation</li> <li>1.2.1 Operating systems</li> <li>- systems software</li> </ul>	<ul><li>1.2.4 Types of programming language</li><li>1.3.2 Databases</li><li>1.3.1 Compression</li><li>Encryption &amp; Hashing</li></ul>	1.2.3 Software development	1.4.2 Data structures part 1 2.1.1-2.1.5 Computational thinking NEA	NEA
	Skills	Python: • Subprograms • Selection • Iteration • Number operations • Arrays/lists	Python: Parameter Passing Local vs global String operations Serial Files Recursion	Python: • OOP principles • Use SQL to interrogate a database	• PYGame	<ul> <li>OOP and procedural implementation of data structures</li> <li>Read and write Pseudocode</li> <li>Read and write Trace tables</li> </ul>	• NEA
	Assessment	End of term assessment on topics covered this half term Programming Challenges	End of term assessment on topics covered this half term Programming Challenges	End of term assessment on topics covered this half term Programming Challenges	End of term assessment on topics covered this half term	End of term assessment on topics covered this half term	End of term assessment on topics covered this half term Programming Challenges Y12 Exam

		Autumn		Spring		Summer	
		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 13	Knowledge	1.3.3 Networks 1.4.2 Data structures part 2	1.4.1 Data Types 1.2.2 Application Generation 2.2.1 Programming techniques	<ul><li>1.4.3 Boolean algebra</li><li>1.5.1 Computer related</li><li>legislation</li><li>1.5.2 Ethical, moral and</li><li>cultural issues</li></ul>	<ul><li>2.2.2 Computational methods</li><li>2.3.1 Algorithms</li></ul>	Revision	
	Skills	OOP and procedural implementation of data structures Read and write Pseudocode Read and write Trace tables	Binary Arithmetic	Long Answer Questions	Create algorithms to solve problems Apply key computational algorithms to solve problems		
	Assessment	Past Questions on Data Structures	Past Questions on Application Generation & data Mock Exam	Past Questions on legal/issues and computational methods	Past Questions on Algorithms Mock Exam		