

The key stage 4 curriculum builds on knowledge gained from Key Stage 3. The intent of the qualification is to enable learners to:						
	Understand and apply the fundamental concepts and principles of Computer Science Develop the capacity to think logically, problem solve, and make appropriate decisions in a resilient way Analyse problems in computational terms through practical problem-solving experience Enable learners to think creatively, innovatively, analytically, logically and critically Understand the components that make up digital systems and how they communicate with one another Understand the impacts of digital technology to the individual and wider society					
	AUTUMN TERM	SPRING TERM	SUMMER TERM			
Y10	<ul> <li>2.2 Programming fundamentals</li> <li>Inputs &amp; variables</li> <li>Inputs &amp; variables - data types</li> <li>Inputs &amp; variables - More Maths</li> <li>String manipulation</li> <li>String manipulation</li> <li>Selection</li> <li>Selection - nested</li> </ul>	<ul> <li>2.2 Programming fundamentals</li> <li>Turtle - basics</li> <li>Turtle - repeating instructions</li> <li>For loops</li> <li>While loops</li> <li>Lists</li> <li>File handling</li> </ul>	<ul> <li>2.2 Programming fundamentals</li> <li>Turtle - subroutines</li> <li>Turtle - Random_if</li> <li>Turtle - random_shapes</li> <li>Turtle - complete all activities</li> <li>Procedures &amp; Functions</li> </ul> 2.1 Algorithms (Flowcharts & pseudocode)			
	Homework Tasks, Achievement Tests, End of Unit Assessments	Homework Tasks, Achievement Tests, End of Unit Assessment	Homework Tasks, Achievement Tests, End of Unit Assessments, Mock Exam			



## KS4 Computer Science Curriculum Map

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Yr11	1.1 – Systems architecture	2.1 – Algorithms	
	1.2 – Memory and storage	2.4 - Boolean logic	1.6 – Ethical, legal, cultural and environmental impacts of digital technology
	1.2.3 - Units	1.5 – Systems software	1.4 – Network security
	1.2.4 - Data storage		<ol> <li>1.3 – Computer networks, connections and protocols</li> </ol>
	1.2.5 - Compression		
	Homework Tasks, Achievement Tests, End of Unit Assessments, Mock GCSE, Revision packs	Homework Tasks, Achievement Tests, End of Unit Assessments, Mock GCSE, Revision packs	Homework Tasks, Achievement Tests, End of Unit Assessments, Revision packs, GCSE exam