

Year 11 Computer Science

Subject and Year Group	Autumn Year 11	Autumn 2 Year 11	Spring 1 Year 11	Spring 2 Year 11	Summer 2 Year 11
Topic/Unit to be studied	<p>Theory: Computational Logic and Languages</p> <p>Practical: File writing and defensive design</p> <p>Theory: Computer networks, protocols</p>		<p>Theory: Network Security and Threats</p> <p>Software and CS Issues, Revision</p> <p>Practical: SQL, Revision</p>		Revision
Core Knowledge and skills	<ul style="list-style-type: none"> To understand how decisions are made within the CPU. To demonstrate how data can be permanently stored using files in programming To understand the components that make up digital systems, and how they communicate with one another and with other systems. 		<ul style="list-style-type: none"> To be able to understand the different threats to a network and to describe ways that these threats can be prevented. To be able to understand the impacts of digital technology to the individual and to wider society . To demonstrate using SQL to a query a database and retrieve information 		
Assessment (How do we know if pupils have learnt what we've taught them?⁸)	<p>Formative: Practical programming Assessment</p> <p>Summative: Test 1: Networks Wired and Wireless</p> <p>Summative: Mock exam Paper 1 and Paper 2</p> <p>Formative: Programming Test: Robust programming, IDLE</p>		<p>Formative: Practical programming Assessment</p> <p>Summative: Topic Test 1 Data and Ethics</p> <p>Topic Test 2: SQL and Programming</p> <p>Summative: Mock exam Paper 1 and Paper 2</p> <p>Interleaved exam questions</p>		<p>Formative: Practice Papers</p> <p>Formative: Programming and Algorithms Booklet</p>