

Computing – Year Group Overview

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	
	Introduction to Computing	Computer Networks and the Internet	Computational Thinking	Scratch	Python	Number Systems	Careers
Year 9	<ul style="list-style-type: none"> Computing @ King's Introduction. 	<ul style="list-style-type: none"> Purpose of Computer Networks. Advantages and Disadvantages of Networks. Computer Topologies. Local Area and Wide Area Networks. Data Packets and Routing. Physical Connections. The Internet. 	<ul style="list-style-type: none"> Computational Thinking. Decomposition. Pattern Recognition. Abstraction. Algorithms. 	<ul style="list-style-type: none"> Sequence. Selection. Iteration. 	<ul style="list-style-type: none"> Introduction to Python. Variables. Asking Questions. Conditionals. Writing a Chatbot. Loops. 	<ul style="list-style-type: none"> Introducing Number Systems. Denary. Binary. Binary Addition. 	<p>Term 1: Police and Cyber Security While studying online safety students will explore the careers that focus on using IT to keep people safe with a focus on Cyber Security.</p> <p>Term 3: Make IT Happen A students begin to think about the options process this lesson will focus on the different routes into the IT industry and explore the differences between IT and Computer Science discovering where their option choices might lead them.</p> <p>Term 5: Computer Programmer/Game Designer As students are introduced to the programming language Python they will have the opportunity to explore different careers within the field of programming including game designer.</p>
	Hardware and Computer Systems					Spreadsheets	
	<ul style="list-style-type: none"> Input and Output Devices. Components Inside a Computer. Identify why a computer system requires memory – Difference between memory and storage. 					<ul style="list-style-type: none"> Formulas. Functions. Conditional Formatting. Graphs and Charts. IF Statements. 	