

## KS3 Curriculum overview – Computer science 2023-24



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 9	<p><b>Introduction to Python</b></p> <p>This unit provides students with an introduction to the programming language Python – which is a widely used language in industry. Students will explore the 3 main programming constructs of Sequence, Selection, and Iteration</p>	<p><b>Networks from Semaphores to the Internet</b></p> <p>This unit provides students with a basic grounding in how computer networks have developed over modern history. Students also gain an understanding in how the Internet works.</p>	<p><b>Creating a website</b></p> <p>Students will learn the basics in HTML and web design, creating a website from scratch. They will also learn about Human-Centred Design which will be instrumental in helping to develop usable websites.</p>	<p><b>Data Representation</b></p> <p>This unit explores how computers understand the world in binary. Students will gain knowledge in how computers store images, text, and sounds.</p>	<p><b>Cyber Security</b></p> <p>This unit aims to provide students with the knowledge and skills to be able to navigate the digital landscape safely. They will explore key themes such as common security threats, and protection methods</p>	<p><b>Infographics</b></p> <p>This unit allows students to express their digital creativity by designing and creating an infographic using graphical design applications</p>