



Curriculum Plans – Key Stage 3 Computer Science

Please find below a detailed outline of the curriculum covered in Computer Science through Year 9 in Key Stage 3.

Year 9

	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7
	<p>How to make a computer appear smart.</p> <p>Students will learn about A.I. and investigate ethical issues, students will develop skills in Python.</p>	<p>Python Programming</p> <p>Students will learn the foundation of sequence, selection and iteration using the Python programming language.</p>	<p>Cracking the code</p> <p>Students will learn about basic encryption using Google sheets</p>	<p>Connecting to the internet</p> <p>Students will learn about how computer networks operate and connect machines together.</p>	<p>Databases</p> <p>SQLite and Python</p> <p>Students will learn the basics of database design using SQLite</p>	<p>Architecture</p> <p>Students will investigate modern computer architecture and language translators.</p>	<p>3D images and 3D printing</p> <p>Students will design and create 3D objects using Tinkercad design software</p>
Assessment	<p>Project - Based Assessment</p> <p>Creating a poster about the future of A.I, Python mini projects</p>	<p>Exam</p> <p>Test on: Python programming , flowcharts and algorithms</p>	<p>Project - Based Assessment</p> <p>Complete spreadsheet challenges on encryption</p>	<p>Project - Based Assessment</p> <p>Sending packets</p>	<p>Project -Based Assessment</p> <p>Creating a database</p>	<p>Project -based Assessment</p> <p>Processing instructions</p>	<p>Project -Based Assessment</p> <p>Designing a 3D printable object</p>