

## Year 9 Computing (2023/24)

<a href="#">Link to NC</a>	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content	Intro to Python programming	Mini project Game design	The Internet and Network security	Further programming and computer-aided design software	Graphic design 1	Graphic design 2
Knowledge & Skills	Using a text based programming language to learn about the constructs of sequence, selection and iteration to solve a variety of computational problems;	Develop an understanding of the pre-production processes utilised in the creation of digital games.	Understand how changes in technology affect safety and security, including methods used to protect online privacy.	Produce quality prototypes, such as controllable work planes and accurate scale size.	Understand the different file types and when to use them. E.g: such as PSD, AI, PDF, RAW, XCF, sketch, and XD.	Independent creative project involving selecting, using, and combining multiple applications, to achieve challenging goals, including meeting the needs of known users.
Key Questions	How does Python differ from other programming languages?  What are sequence, selection and iteration and	How should we decide which is the most suitable software to use for each aspect of the project?	What are the different ways networks are under threat and how we can protect them?	Unit conversion for accurate scale size, why this is so important in design.	What are the differences between raster and vector graphics, such as Photoshop's PSD as well as JPEG, PNG, DNG, GIF, SVG, PDF and	How can we use interactivity to communicate?

	when are they used?				other image file formats.	
Assessment	Low stakes/POP tests Teacher assessment .	Online end of topic assessment	Peer feedback	Peer & Teacher assessed		
Literacy/ numeracy/SMSC/ Character	Literacy is incorporated into the schemes of work specifically where students are required to analyse, plan and review their digital creations. Students will engage with and question their own work and that of their peers.					
Enrichment opportunities and futures	Visit to National Museum of Computing Virtual visit to Amazon UK fulfilment centres Speakers: Royal Mint designer - describes the design process for the production of new coins. Software designer - speaks about routes into the profession. TeenTech Event - Understand the opportunities available in the science, technology and engineering industries.					