Year 9 Computing

Link to NC	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content	Intro to Python programming	Networks and Network security	Interactivity - Digital products	Further programming	Web development - Portfolio	Mini project-App /Game design
Knowledge & Skills	Data types, sequence, selection and iteration - Use of a text based programming language, to solve a variety of computational problems;	Understand how changes in technology affect safety and security, including methods used to protect online privacy.	Students develop their capability, creativity and knowledge in digital media, specifically using interactivity to communicate a message or story.	Use of subroutines

Make appropriate use of data structures ; design and develop modular programs that use functions | Undertake creative projects that involve selecting, using, and combining multiple applications, across a range of devices, to achieve challenging goals | Independent creative project involving selecting, using, and combining multiple applications, to achieve challenging goals, including meeting the needs of known users. |
Key Questions	What are sequence, selection and iteration and when are they used?	What are the different ways networks are under threat and how we can protect them?	How can we use interactivity to communicate?	What is a modular program and what is the advantage of using them?	What is CSS and Javascript and how are they linked to HTML?	How should we decide which is the most suitable software to use for each aspect of the project?
Assessment	Low stakes/POP tests and End of Unit tests.		Peer & Teacher assessed.	Low stakes/POP tests and End of Unit tests	Peer & Teacher assessed	
Literacy/nume	Literacy is incorporated into the schemes of work specifically where students are required to analyse, plan and review their

racy/SMSC/Character	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.