

Year 8 Computing 2023/24

Link to NC	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content Knowledge	Interactivity: Interactive story Digital products	Mini project- App design	Spreadsheet Modelling	AI computing	Designing web pages	Web development - Portfolio Digital products
Skills	Use of flowcharts and visualisation diagrams to describe algorithms. Students develop their capability, creativity and knowledge in digital media, specifically using interactivity to communicate a message or story.	Independent creative project involving selecting, using, and combining multiple applications, to achieve challenging goals, including meeting the needs of known users.	Design and use computational abstractions to solve real-world problems.	Build games, program robots, and train AI models.	Able to analyse the positive and negative features of existing websites. Able to consider the client and user needs in the design process.	Undertake creative projects that involve selecting, using, and combining multiple applications, across a range of devices, to achieve challenging goals
Key Questions	How do the user's needs influence design decisions?	How can we use interactivity to communicate?	What are the most effective ways to analyse data? What is the difference between data and information?	What are the ways to understand "intelligent" technology, how they could learn with and from it.	Has consideration been given to essential features to enhance the user's experience?	What is CSS and Javascript and how are they linked to HTML?
Assessment	Low stakes/POP tests and End of Unit tests.					

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, they will identify how beliefs and values can influence the design of digital products.
Enrichment opportunities and futures	Code club which runs at lunch time once per week. Students participate in the iDEA program of skills and badges. Opportunities to enter Bebras UK challenges: https://www.bebas.uk/