Curriculum Map – Year 8 Computer Science 2024 - 2025

	1	2	3	4	5	6
Y8	**Topic Title:** Physical computing – Microbits, programming (Turtle Graphics - Python) **Big questions:** How do I stay safe in a digital world? What is algorithmic thinking? Can I use sequence, selection and iteration in my code? *(Microbits & Python Turtle Graphics)?*	**Topic Title:** Digital literacy & IT (Searching & Spreadsheets) **Big questions:** Can I search & select information effectively? Can I decompose a problem and model a solution?	**Topic Title:** Computer Systems **Big questions:** What is a computer system? Can machines think?	**Topic Title:** Programming (Python) **Big questions:** How can I use sequence, selection, iteration and assignment in my code?	**Topic Title:** Programming (Python) **Big questions:** How do I decompose a problem and plan out the solution? How can I use sequence, selection, iteration and assignment in my code? How do I make my code robust?	**Topic Title:** Information Technology (PhotoPea) **Big questions:** Can I use photo-editing software to successfully?
Links to NC	*Computer Science & Digital Literacy* - this topic covers bullet points 3 & 9 of the National Curriculum Programme of Study at Key Stage 3.	*Digital literacy & IT* - this topic covers bullet points 1, 3 & 9 of the National Curriculum Programme of Study at Key Stage 3.	*Computer Science* - this topic covers bullet points 4 & 5 of the National Curriculum Programme of Study at Key Stage 3.	*Computer Science* - this topic covers bullet point 3 of the National Curriculum Programme of Study at Key Stage 3.	*Computer Science* - this topic covers bullet point 3 of the National Curriculum Programme of Study at Key Stage 3.	*Information technology* - this topic covers bullet point 8 of the National Curriculum Programme of Study at Key Stage 3.
Assessment	- *Microbits PowerPoint* - *Turtle graphics PowerPoint Assessment Quiz (using code to draw simple shapes, making code more efficient – using variables, loops).*	- *'Planning a trip' student report.*	- *Student quiz assessment*	- *CFU itsLearning quiz* - *Coding challenges*	- *Document showing planning, coding, testing & refining of game.*	- *Game front cover/advert* - *End of year assessment.*

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