Curriculum Map – Computer Science Year 8

	1	2	3	4	5	6
Y8	Topic Title: Programming (Turtle Graphics - Python) Big questions: How can I use sequence, selection, iteration and assignment in my code?		Topic Title: Computer Systems Big questions: How can I search for information effectively? What are input & output devices? Hardware - What's inside a computer & how does it work?	Topic Title: Computer Systems Big questions: What is binary?	Topic Title: Programming (Python) Big questions: What is an algorithm and how can I create a basic program in Python? How can I design a basic algorithm using a flow diagram? How can I use sequence, selection and assignment in my code? What are data types & how can I use these in my code?	
Links to NC	*Computer Science* *Use two or more programming languages, at least one of which is textual, to solve a variety of computational problems.*		*Computer Science* *Understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems.*	*Computer Science* *Understand how numbers can be represented in binary, and be able to carry out simple operations on binary numbers [for example, binary addition, and conversion between binary and decimal]*	*Computer Science* *Use two or more programming languages, at least one of which is textual, to solve a variety of computational problems.*	
Assessment	*CFU Quiz (using code to draw simple shapes, making code more efficient – using variables, loops).*		- *Student assessment in PowerPoint (explanations of main components inside a computer)*	- *Binary CFU quiz (what binary is, simple conversions)*	- *Chatbot coding challenge (variables, user input, if statements, correct data types)* - *End of year assessment.*	