Curriculum Map – ICT- Year 7

	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5
Key focus	E-safety		Converting Binary and denary character sets Understanding how to calculate the size of date files: Test and image files		Programming skill
Key knowledge and skills	Understanding the key safety issues with using the internet. Understand how different methods to keep safe when using the internet. Understand the signs that students could spot to identify concerns. Understand the environmental responsibilities we all have as IT users		Understanding Binary and denary number systems Understanding the purpose of binary in computer systems Understanding the process to convert binary into denary Understanding the process to convert denary numbers into binary Understanding the term character sets		Understanding ho functions in python Understanding the Development Env programmer Understand the se Understanding ho programming code
Key words/ vocabulary	Grooming / Cyberbullying / Radicalisation/ Digital footprint / Green IT		Binary / base 2 / base 10 / power of 2 grid / machine code		IDE / Syntax error
Assessment method	Question and answering in lessons / End of topic assessments / observations in lesson				
Wider links	Ethical and environmental issues relating to the IT and digital world.		Apply mathematical logic and computational thinking to solve real world problems		Develop and apply programming skill
Enrichment opportunities			Programming clubs, UK programming challenges		
Careers links	Supporting responsible interned digital footprints	et use and reducing negative	Software development, com	outer engineer	Software develope



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	Half term 6			
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ow to perform basic mathematical on programming				
	e IDE (Integrated and the benefits it gives a			
equence programming construct				
ow to find ar le	nd correct syntax errors in			
rs / indents	/ inputs / command words /			
ly mathema Is	tical logic and develop			
er, games o	designer, computer analysist			