Subject: ICT/Computing

Year 8

OVERVIEW	In Year 8 students develop a range of skills that allow them to get a better understanding of different sectors of computing. Students will begin to develop their skills in 3 main areas: Digital Literacy, ICT and Computer Science. The students build upon previous skills learnt to develop and enhance their knowledge and understanding. For example, developing Scratch (block code) to Python (text-based code) in Year 8. Students with further develop their graphic skills and understanding of iMedia theories.	
Aut	 Unit 8.1 Programming (Microbits) Explain/debug how variables are used in programs Write programs that use random number variables Evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems Practical experience of writing computer programs in order to solve problems. Practical programming (for example: bitdice, at home activity picker, cookie tin alarm, door alarm, step counter, emotion badge) 	Assessment: Practical assessment of project work
Spr	 Unit 8.2 Graphics www.photopea.com Removing an object Letter Focus Interleaving and layering type Props Theory (Characterisation) 	Assessment: Practical assessment of a variety of tools used to create a product for a client.
Sum	 Unit 8.3 Programming (Python) www.replit.com Python Basics- Functions (output/input statements) Use of data types in programming Casting If/else statements Creating lists Python Turtle 	Assessment: Practical assessment of programming project tasks.
Useful resources for supporting your child at home: Programming: Teaching coding made easier(TurningLab) https://www.turinglab.co.uk/ Microbit: Projects micro:bit (microbit.org) practice online without a microbit at home. Graphics: Sue Farrimond Tutorials (google.com), snapseed App		

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