

OVERVIEW

Salford City Academy The best in evervone™

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, further develop Python skills from Year 7 to Year 8. Students with further develop their graphic skills and understanding of iMedia theories.

Aut	Unit 8.1 Programming	Assessment:
	 Input data (using input function, variables, casting), Output data (using print function, use of arithmetic operators) 	End of unit
	 Sequence, selection and iteration(IF-ELSE, and IF ELIF-ELSE) 	assessment Unit 8.1,
	Counter-controlled iteration (For loops), Condition-controlled iteration (WHILE loops), Turtle (Turtle module)	8.2 (Written/practical assessment- Programming
	Unit 8.2 2D Animation	challenges)
	• Creating a frame by frame animation, use a range of animation tools including keyframes, onion skinning, layering, squash and stretch, use tweening, stage, frame and frame rate	Whole Class Feedback
	Creating interactive buttons, add basic ActionScript to animation, creating digital animation for an AI robot.	
	Unit 8.3 Graphics (Photopea)	Assessment:
Spr	 Target audiences, purpose. 	
	• Use a variety of tools (selection tools, manipulating layers, layer styles,	End of Unit
	feathering, cloning and healing. Gradient effects, text special effects, blur,	assessment
	sharpen, smudge tools).	(Written/online-target audiences, purpose,
	Propps Characterisation Theory	Propp's theory, genre,
	Levi-Strauss (Binary Opposites)	relationship between
	Genre-recognise genres and how they form conventions.	genres and
	Analyse the relationship between audience, purpose and product.	conventions)
		Whole Class
		Feedback
Sum	Unit 8.4 Ethics of Computing	Assessment:
	 Sourcing content responsibly (Copyright, Creative commons, data protection) 	End of unit
	 Technology and the environment 	assessment
	 Technology and the law (GDPR) 	(Written/online-
	Moral dilemmas	Technology and law, CPU, RAM, ROM,
	Unit 8.5 Computer Systems/Project	factors affecting,
	• Factors affecting CPU performance (clock speed, cache size, number of cores)	Fetch Cycle)
	RAM/ROM and virtual memory	
	• Factors affecting secondary storage (cost, capacity, speed, portability)	Whole Class
	Fetch execute cycle	Feedback
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Useful resources for supporting your child at home:

Programming: Teaching coding made easier(TurningLab) https://www.turinglab.co.uk/, www.wickeditor.com, Graphics: Sue Farrimond Tutorials (google.com), snapseed App