

KS3 Computing Assessment Grid Year 8

	Computational Thinking	Programming	Physical Computing	Using and Applying Technology	Digital Literacy
	Looking at a problem and how we can solve it.	Programming executes precise instructions.	Performs processes, calculations and operations.	Digital content can be represented in many forms.	Communicating safely and respectfully online.
Emerging	You can design solutions by decomposing a problem and suggesting alternatives.	You can detect and correct simple semantic errors i.e.: debugging, in programs.	You understand the different parts of a computer and their uses, including types of networks. You understand the main functions of the operating system.	You can demonstrate a limited variety of tools to create digital artefacts. You can provide limited explanations for the target audience, genre, and purpose of digital artefacts.	You can explain how to protect online identity and privacy. You can self/peer assess the digital artefact You can identify the narrative and mise-en-scene of media products.
Developing	You can evaluate (detect, correct) the effectiveness of algorithms and models. Identify sequence, selection and iteration.	You can use arithmetic operators, IF statements, and loops within programs.	You can describe the function of hardware components that make up computer systems.	You can demonstrate a selection of software tools to create graphics. You can demonstrate the target audience, purpose and genre of a digital artefact.	You can provide a link between the narrative and the mise-en-scene used for media products. You can explain the terms such as legislation, data protection, computer misuse, copyright, creative commons etc.
Secured	You can understand at least one key sort and one key search algorithm that reflect computational thinking.	You can create programs using a block of code. You understand the difference between 'while' loop and 'for' loop. You can convert denary to binary, binary to hexadecimal.	You can describe the role of the software components. You can explain the process of the CPU and i.e.: Fetch, Decode, Execute. You can explain the relationships between resolution, colour depth and file size etc.	You can use a variety of editing software to manipulate images with justification, considering file format. You can describe the representation (gender, ethnicity/age) of the media products using examples.	You can design digital artefacts with appropriate validation routines to ensure trustworthiness of data. You are able to describe the potential consequences of inappropriate content and conduct.
Exceeded	You can understand uses of logic Gates/truth tables for single gates.	You can design and write nested IF's using Python.	You can explain Von Neumann Architecture. You can explain differences between WAN, and LAN.	You can demonstrate imaginative application of pre-production, production and post production skills.	You can explain and justify how the use of technology impacts on society.

		TERM 1	
		DATE	MARK
		END OF TERM	

		TERM 2	
		DATE	MARK
		END OF TERM	

		TERM 3	
		DATE	MARK
		END OF YEAR	

