Computing
Year 9 Curriculum Overview



						SCHOOL Creative
	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
	Assessment 1			Assessment 2		
Core Course Topic: These topics are taught throug h the identifi ed terms. They are taught in small bitesize chunks and revisite d regularl	Computer Components Graphical User Interface	Graphical User Interface Creating GUI -GUI design	Graphical User Interface (Promotional Project) Legislation  Computer Components	Python	Business & Computing	Online Behaviour + iMedia Project
Additio nal support links:	https://studio.code.org/home https://classroom.thenational.acad emy/units/computer-systems-e17a	https://teachers.thenational.aca demy/lessons/guis-6njk0c	https://teachers.thenational.aca demy/lessons/guis-6njk0c	https://classroom.thenational.aca demy/units/intro-to-python- programming-9c22	https://classroom.thenational.ac ademy/units/mobile-app- development-4fbe	https://teachers.thenational.acade my/lessons/online-behaviour-rules- cmv30c
Knowle dge: Include d here is the specific knowle dge your child will learn in detail	Being able to understand how computer systems operate in the real world and improve their interaction with them  Describe the features of Graphical User Interfaces  Discuss the advantages and disadvantages of GUI  Identify design features for GUIs  Discuss the purpose of a navigation plan or site maps  Identity accessibility features in user interfaces.  Create a navigation plan/site map for a specified purpose	Being able to understand how computer systems operate in the real world and improve their interaction with them.,  Practise the skills needed to create a user interface  Create an interactive user interface for a client	Ability to apply knowledge of digital laws in any subject that is using digital platforms.  Create, re-use, revise and repurpose digital artefacts for a given audience, with attention to trustworthiness, design and usability.  Understand the hardware and software components that make up computer systems, and how they communicate with one another and other system	Understand how programmes work and apply the same logic and problem-solving ability to other subjects and problems.  Make programs that clearly and elegantly solve a given problem, or a scenario of their own design  Clearly expand their programming knowledge to a high level through their own independent learning  Make use of functions and procedures to create modular, extensible programs  Understand that programming techniques are largely similar and apply their knowledge to other programming languages  Document all program code, showing clear understanding of all code used – including that which	Evaluate: Why some entrepreneurs have been more successful than others The key factors that made well known entrepreneurs successful The key motivations for starting a business and why the rewards outweigh the risks The impact different types of business may have on key stakeholders and the responsibilities businesses may have in this scenario The benefits and drawbacks of PLC and LTD ownership The reasons why a sole trader or partnership may be the correct type of business to set up despite the liability risks	Understand negative influences and reasons why people may coerce online:  i. Racism/homophobi a/Transphobia ii. Negative social media influences - weight loss, eating disorders, image etc iii. Grooming iv. Radicalisation Recognising the signs and situations in which harmful online behaviour can occur:  v. Sexual harassment vi. Grooming vii. Cyberbullying Definition/meaning of sharing explicit images and videos  • Contexts of how that can happen (consensual, non consensual)  • Impacts  • Strategies for getting help

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				has been imported or copied from elsewhere  Understand the concept of reusable code bases and make consistent use of these in their programs  Convert numbers with fractional parts to binary	How a given business has approached identifying target markets and tackling issues facing their business  Existing brand guideline documents in order to create a new brand for a given business scenario	Laws governing deligible behaviour - sexting atrolling, harassment, stalking atrolling, harassment, stalking atrolling.  Understand Positive relationships:      Examples of positive contributions online and how they effect change      Examples of how to make positive contributions to online discussions and debates (twitter filters news story?)	
						Understand how programmes work and apply the same logic and problem-solving ability to other subjects and problems	
						Understand how programmes work and apply the same logic and problem-solving ability to other subjects and problems	
						Pre-Production documents Planning multimedia products Creating multimedia products Graphic skills Evaluating multimedia products	
Skills: Include d here is the specifi c skills your child will learn in detail	Ability to understand and apply legislation knowledge to other areas.	Create buttons, hyperlinks, use of Slide master to add user	common across courses.  Ability to discuss and apply legal knowledge.  Computer hardware and software	problem, remove unnecessary details and create logical solutions	Create a brand guideline which appears credible and professional, with sensible guidance and information about the chosen:	The ability to break down a problem, remove unnecessary details and create logical solutions.  Testing and evaluation skills.  Recognising the signs and situations in which harmful online behaviour can occur	
Common Lexico n: These are the key words and terms learnt. These can be found	KS3 NC: understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns	KS3 NC: Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users.	KS3 NC: Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users.	KS3 NC: Understand several key algorithms that reflect computational thinking [for example, ones for sorting and searching]; use logical reasoning to compare the utility of alternative algorithms for the same problem.	KS3 NC: Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	KS3 NC: Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users	

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		iMedia curriculum.		Links to Computer Science and		Links to the computer science
Course	iMedia curriculum.	imedia comcolom.	iMedia curriculum.	iMedia curriculum.	iMedia curriculum.	curriculum and maths for problem
Topic: These	Links to graphics due to files being	Ability to gooly	The knowledge leads into the	Link to Maths, able to apply	Links to Dhotography and	solving.
topics	Links to graphics due to files being stored online and online working.	Ability to apply knowledge of digital laws in any	The knowledge leads into the iMedia curriculum and into the	Link to Maths - able to apply computational mathematics.	Links to Photography and graphics courses - storing and	Business & iMedia KS4 course
	stored offilline and offilline working.	subject that is using digital	graphics curriculum offered. Links	Computational mathematics.		Business & imedia K34 Course
are taught		platforms.	to Photography and graphics		compressing images.	
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