	Meadow Park: Curriculum Map Computing (2025-2026) v1					ND/G	
Key Stage	Year Group	Subject	Teacher	Programm	e of Study		
KS3	7/8/9	Computing	Mr Dunn	KS3 ICT	(NCCE)		
Autumn A Topic(s)		Autumn B Topic(s)	Spring A Topic(s)	Spring B Topic(s)	Summer A Topic(s)	Summer B Topic(s)	
	(-)	- 1 - (-)	Year 7	- F- X-7	-1(-7	- P - X-7	
puting systems lamental eleme up a compute  Explain the di between a ge computing sy	r system.  fference neral-purpose	Modelling data using spreadsheets / Media Publishing  • Use basic formulas with cell references to perform calculations in	<ul> <li>Media – Animations</li> <li>Add, delete, and move objects.</li> <li>Scale and rotate objects</li> </ul>	Representations: from clay to silicon Representing numbers and text using binary digits.  List examples of representations. Provide examples of	Mobile app development Using event-driven programming to create an online gaming app.  Identify when a problem needs to be broken down.	Introduction to  Python programming  Applying the  programming construct  of sequence, selection, and iteration in Python  • Describe what algorithms and programs are and how	
purpose-built Recall that a computing sy for executing Recall that a sequence of i	device. general-purpose stem is a device programs. program is a nstructions that tions that are to	<ul> <li>a spreadsheet (+, -, *, /).</li> <li>Use the autofill tool to replicate cell data"</li> <li>Identify columns, rows, cells, and cell references in spreadsheet software.</li> <li>Use formatting techniques in a spreadsheet.</li> <li>Create appropriate</li> </ul>	<ul> <li>Use a material to add colour to objects.</li> <li>Add, move, and delete keyframes to make basic animations.</li> </ul>	how different representations are appropriate for different tasks.  Recall that representations are used to store, communicate, and process information".	<ul> <li>Implement and customize GUI elements to meet the needs of the user".</li> <li>Develop a partially complete application to include additional functionality.</li> </ul>	they differ.  Locate and correct. common syntax error Recall that a program written in a programming language needs to be translate in order to be execut by a machine. Write simple Python programs that display messages, assign val to variables, and rece	
programs Describe the floor hardware com in computing Recall that all	stems work rder to execute function of the nponents used systems computing ardless of form, r structure	<ul> <li>charts in a spreadsheet.</li> <li>Recognise DTP file types.</li> <li>Develop scale and orientation techniques.</li> <li>Edit backgrounds and layers.</li> <li>Use scaling and formatting tools</li> </ul>	<ul> <li>Play, pause, and move through the animation using the timeline.</li> <li>Create useful names for objects.</li> <li>Join multiple objects together using parenting.</li> </ul>	<ul> <li>Measure the length of a representation as the number of symbols that it contains.</li> <li>Provide examples of how symbols are carried on physical media.</li> <li>Recall that characters can be represented as sequences of symbols and list examples of character coding schemes.</li> </ul>	<ul> <li>Recognise that events can control the flow of a program.</li> <li>Use user input in an event-driven programming environment.</li> <li>Use variables in an event-driven programming environment.</li> </ul>	keyboard input".  Describe the semanti of assignment statements.  Receive input from the keyboard and converto a numerical value.  Use simple arithmetic expressions in assignment statement to calculate values".	

Week 0						
<u>Year 8</u>						
Computing systems Exploring the fundamental elements that make up a computer system.	Modelling data using spreadsheets / Media Publishing	<u>Media – Animations</u>	Representations: from clay to silicon Representing numbers and text using binary digits.	Mobile app development Using event-driven programming to create an online gaming app.	Introduction to  Python programming  Applying the  programming constructs  of sequence, selection,  and iteration in Python.	
<ul> <li>Analyse how the hardware components used in computing systems work together in order to execute programs.</li> <li>Define what an operating system is and recall its role in controlling program execution.</li> </ul>	<ul> <li>" -Collect data</li> <li>Explain the difference between data and information.</li> <li>Explain the difference between primary and secondary sources of data".</li> <li>" -Analyse data</li> <li>Create appropriate charts in a spreadsheet</li> <li>Use the functions SUM, COUNTA, MAX, and MIN in a spreadsheet.</li> </ul>	<ul> <li>Use edit mode and extrude.</li> <li>Use loop cut and face editing.</li> <li>Apply different colours to different parts of the same model.</li> <li>Use proportional editing.</li> </ul>	<ul> <li>"-Explain what binary digits (bits) are, in terms of familiar symbols such as digits or letters.</li> <li>Measure the size or length of a sequence of bits as the number of binary digits that it contains".</li> </ul>	<ul> <li>Establish user needs when completing a creative project.</li> <li>Identify and fix common coding errors.</li> <li>Pass the value of a variable into an object".</li> <li>Apply decomposition to break down a large problem into more manageable steps.</li> </ul>	<ul> <li>Generate and use random integers.</li> <li>Use binary selection (if, else statements) to control the flow of program execution.</li> <li>Use relational operators to form logical expressions".</li> </ul>	
<ul> <li>Describe how hardware is built out of increasingly complex logic circuits.</li> <li>Use logic gates to construct logic circuits, and associate these with logical operators and expressions.</li> </ul>	<ul> <li>Create an appropriate range of DTP templates for prescribed purposes.</li> <li>Research and edit information from external sources.</li> <li>Develop the use of gridline controls within the development of content.</li> <li>Understand the need for optimisation.</li> </ul>	<ul> <li>Use the knife tool.</li> <li>Use subdivision.</li> <li>Create project file types using effective file referencing.</li> </ul>	<ul> <li>Convert a decimal numbers to binary and vice versa.</li> <li>Describe how natural numbers are represented as sequences of binary digits".</li> </ul>	<ul> <li>Use a block-based programming language to create a sequence.</li> <li>Use user input in a block-based programming language.</li> <li>Use variables in a block-based programming language".</li> </ul>	<ul> <li>Describe how iteration (while statements) controls the flow of program execution.</li> <li>Use multi-branch selection (if, else-if, else statements) to control the flow of program execution".</li> </ul>	
		<u>Year 9</u>				
Computing systems Exploring the fundamental elements that make up a computer system.	Modelling data using spreadsheets / Media Publishing	<u>Media – Animations</u>	Representations: from clay to silicon Representing numbers and text using binary digits.	Mobile app development Using event-driven programming to create an online gaming app.	Introduction to  Python programming  Applying the  programming constructs  of sequence, selection, and iteration in Python.	
<ul> <li>Associate the use of artificial intelligence with moral dilemmas.</li> <li>Describe how machine learning differs from traditional programming.</li> <li>Learn about the steps involved in training machines to perform tasks (gathering data, training, testing).</li> </ul>	<ul> <li>Analyse data.</li> <li>Use a spreadsheet to sort and filter data.</li> <li>Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet".</li> <li>Use conditional formatting in a spreadsheet".</li> </ul>	<ul> <li>Add and edit set lighting.</li> <li>Set up the camera.</li> <li>Compare different render modes.</li> <li>Optimize files for intended target output devices.</li> </ul>	<ul> <li>Convert between different units and multiples of representation size.</li> <li>Provide examples of the different ways that binary</li> </ul>	<ul> <li>Reflect and react to user feedback.</li> <li>Use a block-based programming language to include sequencing and selection.</li> <li>Use user input in a block-based programming</li> </ul>	<ul> <li>Use iteration (while loops) to control the flow of program execution.</li> <li>Use variables as counters in iterative programs".</li> </ul>	

<ul> <li>Identify examples of artificial intelligence and machine learning in the real world Provide broad definitions of 'artificial intelligence' and 'machine learning'.</li> <li>Explain the implications of sharing program code.</li> </ul>	<ul> <li>Use the functions AVERAGE, COUNTIF, and IF in a spreadsheet".</li> <li>Use conditional formatting in a spreadsheet".</li> <li>Explore professional typography and practices.</li> <li>Understand the difference between graphical design applications and DTP suites.</li> <li>Recognise business expectations.</li> </ul>	<ul> <li>Plan an animation for a target brief scenario.</li> <li>Utilise information repositories to inform and develop knowledge and practice.</li> <li>Create a 3–10 second animation.</li> <li>Render out the animation.</li> </ul>	digits are physically represented in digital devices".  • Apply all of the skills covered in this unit to a series of set problems. • Explore the role of logic gates types.	<ul> <li>language</li> <li>Use variables in a block-based programming language".</li> <li>Evaluate the success of the programming project Use a block-based programming language to include sequencing and selection.</li> <li>Use user input in a block-based programming language.</li> <li>Use variables in a block-based programming</li> </ul>	<ul> <li>Combine iteration and selection to control the flow of program execution.</li> <li>Use Boolean variables as flags".</li> <li>Use effective tags within coding sequences.</li> </ul>
Assessment Tasks	Assessment Tasks	Assessment Tasks	Assessment Tasks	language".  Assessment Task	Assessment Tasks
Learners will present findings.	Learners will create a	Learners will create a range	Learners will use online tools	Learners will create a	Learners will develop a range
Learners utilise a developmental evidence	range of developmental	of media documents for a	and PC apps to develop	range of project file	of coding scripts and
approach to electronic work.	spreadsheet file evidence.	range of set purposes and tasks.	evidence.	types to demonstrate their learning journey which will evidence composition.	evidence developments through screen shots and annotations
Learners will develop a portfolio of evidence Set question challenges.	Learners will answer written questions and solve challenge problems.	Learners will utilise effective etiquette and considerations of end client needs.	Learners undertake offline written challenge assessment tasks.	Learners will answer written and verbal challenges and set questions.	Learners will provide feedback through targeted and scaffolded questioning.

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Personal Development	Personal Development	Personal Development	Personal Development	Personal Development	Personal Development
Understand how information is	Appreciate how coding is	Learners will appreciate	Understand how	Learners will have started	Learners will start to
customized to target audiences	intrinsic to input, process	subject overlaps of other	underlying principles of	to consider other end user	appreciate their own
	and outputs of everyday	subjects when developing	digital representations are	requirements and relate	personal interactions with
	electronic products and	new content.	applied in their own real	their own experiences	website coding and some of
	devices		settings		the processes that contribute
					to its development
Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing	Reading &Writing
Learners will explore a range of	Learners will develop a	Learners will use	Learners will develop	Combine information	Describing key words and
technical literacy and utilise its	new range of technical	professional etiquette and	a new range of	from a range of sources	linking concepts
application within their	spreadsheet language	terminology.	technical literacy	line a range or ecanoes	g comospic
development phases	terminology	,	,		
Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening	Speaking & Listening
oponiming or allocoming		opening a necessary			
Learners will be challenged to	Learners will pair share	Learners will use round robin	Round robins, class	Small groups to determine	Learners are to consider the
explain their technical literacy	experiences such as problem	opportunities to re-develop	discussions alongside pair	how to solve teacher set	assumptions and the context of
and pair share it	solving and embrace	and (or) re-purpose their	sharing will further	problem scenarios.	solutions they have
	challenging scaffolded	solutions	facilitate knowledge and		developed with their peers
	questioning.		understanding		
Numerous C Mathematical	Numerous C Mathematical	Numara a C Mathematical	Numerous 9 Mathematical	Numerous C Mathematical	Numerous C Mathematical
Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning	Numeracy & Mathematical Reasoning
Understand and calculate	Numerical functions within	Numerical settings and control	Numerical controls and	Using mathematical	Varying, calculating and
memory and processing	spreadsheets to control	features within the application	calculations using binary	procedures, determining	changing the values in coding.
features.	outcomes.	technologies.	coding.	appropriate variables.	changing the values in county.
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Creative Media	Creative Media	Creative Media	Creative Media	Creative Media	Creative Media
Desktop	Utilise spreadsheet software.	Use open source and	Use online and offline	Object orientated coding	Online scripting coding
PCs/Whiteboard/Graphical		commercial applications for	applications.	software, games and	compliers and desktop PC
applications.		media development.		quizzes.	software.