

## CURRICULUM MAP PLAN PROFORMA

UNIT TITLE	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
<p>YEAR 7</p> <p>The purpose of the Year 7 curriculum, drawing upon your curriculum intent and mastery statements</p>	<p><b><u>Modelling Data – Spreadsheets</u></b></p> <ul style="list-style-type: none"> <li>Getting to know spreadsheet</li> <li>Basic Functions &amp; formatting</li> <li>Collecting data</li> <li>Analyse data</li> <li>Functions, sorting and filtering data</li> </ul> <p><b><u>Programming essentials in Scratch</u></b></p> <ul style="list-style-type: none"> <li>Intro to Scratch programming</li> <li>Sequence and variables</li> <li>Selection</li> <li>Operator</li> </ul>		<p><b><u>Programming essentials in Scratch</u></b></p> <ul style="list-style-type: none"> <li>Problem solving</li> <li>Assessment</li> </ul>	<p><b><u>Networks: from semaphores to the Internet</u></b></p> <ul style="list-style-type: none"> <li>Computer networks</li> <li>Networking hardware</li> </ul> <p><b><u>Using Media – Gaining Support for a Cause</u></b></p> <ul style="list-style-type: none"> <li>Features of a Word Processing</li> <li>Licensing</li> </ul>		<p><b><u>Using Media – Gaining Support for a Cause</u></b></p> <ul style="list-style-type: none"> <li>Plagiarism</li> <li>Research and plan your blog</li> <li>Promoting your cause</li> <li>Project completion</li> </ul>
Mastery Strands	Modelling 1,2,3, Networks 1,2		Networks 1,2	Programming 1,2,3,4		Digital literacy 1,2,3,4
National Curriculum links	3.1, 3.7, 3.5		3.5	3.2, 3.3, 3.4, 3.7. 3.8		3.7

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	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YEAR 8	<p><b><u>Data Representation</u></b></p> <ul style="list-style-type: none"> <li>Explain what binary digits (bits) are, in terms of familiar symbols such as digits or letters</li> <li>Convert a decimal number to binary, hex and vice versa</li> <li>Binary additional &amp; overflows</li> </ul> <p><b><u>Introduction to Python Programming</u></b></p> <ul style="list-style-type: none"> <li>Introduction to Python</li> <li>Semantics of assignment statements</li> <li>Loop/iteration</li> </ul>		<p><b><u>Introduction to Python Programming</u></b></p> <ul style="list-style-type: none"> <li>Use multi-branch selection (if, elif, else statements)</li> <li>Programming problems</li> </ul>	<p><b><u>Computing Systems</u></b></p> <ul style="list-style-type: none"> <li>Introduction to computer systems Input, Process and Output</li> <li>Hardware and Software Cloud Computing</li> </ul> <p><b><u>Programming: Mobile app development</u></b></p> <ul style="list-style-type: none"> <li>Introduction to AppLab</li> <li>Product Design</li> <li>GUI Design</li> </ul>		<p><b><u>Programming: Mobile app development</u></b></p> <ul style="list-style-type: none"> <li>Apply decomposition to break down a large problem into more manageable steps</li> <li>Use a block-based programming language to include sequencing and selection</li> <li>Evaluate the success of the programming project</li> </ul>
Mastery Strands	Hardware 1,2,3, Software 1,2,3		Data representation 1,2,3	Programming 1,2,3,4		Programming 1,2,3,4
National Curriculum links	3.4, 3.5, 3.6		3.6	3.1, 3.2, 3.3, 3.6, 3.8		3.1, 3.2, 3.3, 3.6, 3.8

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	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2	
YEAR 9	<p style="text-align: center;"><b><u>Cybersecurity</u></b></p> <ul style="list-style-type: none"> <li>• GDPR</li> <li>• Social</li> <li>• Engineering</li> <li>• Network security</li> <li>• Malware and hacking</li> <li>• Brute Force</li> </ul> <p style="text-align: center;"><b><u>Python programming with sequences of data</u></b></p> <ul style="list-style-type: none"> <li>• Write programs that display messages, receive keyboard input</li> <li>• Use selection (if-elif-else statements) to control the flow of program execution</li> <li>• Locate and correct common syntax errors</li> </ul>		<p style="text-align: center;"><b><u>Python programming with sequences of data</u></b></p> <ul style="list-style-type: none"> <li>• Use iteration (for statements) to iterate over list items</li> <li>• Perform common operations on lists or strings</li> </ul> <p>Combine key programming language features to develop solutions to meaningful problems</p>	<p style="text-align: center;"><b><u>Media – Animations</u></b></p> <ul style="list-style-type: none"> <li>• Scale and rotate objects</li> <li>• Add, move, and delete keyframes to make basic animations</li> <li>• Join multiple objects together using parenting</li> </ul> <p style="text-align: center;"><b><u>Physical Computing Programming</u></b></p> <ul style="list-style-type: none"> <li>• Write, execute, and debug a Python program for the micro:bit</li> <li>• Write programs that use the micro:bit's built-in input and output devices</li> </ul>			<p style="text-align: center;"><b><u>Physical Computing Programming</u></b></p> <ul style="list-style-type: none"> <li>• Write programs that communicate with other devices by sending and receiving messages wirelessly</li> <li>•</li> </ul>

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	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Mastery Strands	Networks 1,2		Networks 1,2	Programming 1,2,3,4		Programming 1,2,3,4
National Curriculum links	3.8, 3.9		3.9	3.1, 3.2, 3.3, 3.6, 3.8		3.1, 3.2, 3.3, 3.6, 3.8

Respect | Aspire | Achieve