

Computer Science / ICT - Year 7 Long Term Curriculum Map					
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B
Introduction to the school system. E-Safety Issues	<b>Graphic Design:</b> Using Adobe Fireworks and Photoshop to plan and create a magazine front cover.	<b>Flowol:</b> Understanding and Constructing Algorithms	Scratch: Block based computer programming	<b>Microbit:</b> Developing the pupils knowledge of block based programming and introduce text based programming.	<b>Binary Bots:</b> Using computational thinking and their programming skills to program the robot.
ASSESSMENT	ASSESSMENT: Pupils will be assessed on the quality of their final product.	ASSESSMENT: Pupils will be asked to complete a flowol mimic and explain all the inputs/ outputs and processes.	ASSESSMENT: Pupils will be assess on the quality of their final product (A single or multi-level maze game.)	ASSESSMENT	ASSESSMENT: Pupils will be assessed on the type of code they use (block or line) and their ability to program the robot to solve a problem.
				ТЕРМОЛ	TEDMOD
IERM 1A	IERM 1B	TERM 2A	TERM 2B	TERM 3A	IERM 3B
Introduction to the new school system. <b>Spreadsheet Skills</b> : Using Microsoft Excel to produce a variety of spreadsheets.	Binary and Ascii Logic: Pupils will explore the use of Binary, Ascii and Logic Gates	<b>Python Programming:</b> Pupils will build on their prior knowledge of text based programming. Pupils will look at string, variables and iteration.	<b>E-safety:</b> Pupils will look at the danger of cyber bullying and sexting and the laws and legislations attached to both.	<b>Pixal Art:</b> Using MS Excel and Adobe Illustrator to create 2D pixal art.	Multimedia Product: Pupils will use MS Power point to create an interactive multimedia product.
ASSESSMENT: Pupils will be assess on their ability to create a fully functional spreadsheet for a given purpose.	ASSESSMENT	ASSESSMENT: Pupils will be asked to plan and create a simple python program to solve a given problem.	ASSESSMENT	ASSESSMENT: The quality of their game character and background will be assessed.	ASSESSMENT: The quality of their final product will be assessed.



Information Technology - Year 9 Long Term Curriculum Map					
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B
The project Life Cycle: Pupils will investigate the four stages of the project life cycle.	<b>Planning Tools:</b> Pupils will investigate the use of both formal and informal planning documents	Database Skills: Pupils will design and create a flat file database containing: Fields, Validation, Verification and an input form	Database Skills: Pupils will develop their database from a flat file to a relational allowing queries to be ran and reports to be produced. Functions and formulas will be added.	<b>Testing and</b> <b>Evaluating:</b> Pupils will investigate and understand the didn't methods of testing and evaluating	Legislation: Pupils will look back over the years work and discuss in detail the legislation they have used, investigated and created within all of their projects.
ASSESSMENT: Project – Pupils will be asked to produce a set of initiation documentation for a given purpose/ Project.	ASSESSMENT: Project – Pupils will be asked to produce a set of planning documents for a given purpose/ Project	ASSESSMENT	ASSESSMENT: Project – Pupils will be asked to plan, produce and test a relational database which can be used by the company 'Amazon Prime'.	ASSESSMENT	ASSESSMENT
	Co	mputer Science - Year 9	Long Term Curriculum N	lap	
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B
Computational thinking and algorithms: Pupils will investigate the use of computational thinking to solve and plan solutions using algorithms.	<b>Programming Techniques:</b> Pupils will develop their algorithms with the use of text based programming. Understanding the need for variables, data types, constants and iteration. They will also be introduced to WHILE and IF functions.		Unit 1.1: System Architecture: Pupils will be introduced to the fundamentals of the computer system.	<b>Unit 1.2 – Memory:</b> Pupils will look at both the internal and external memory of a computer system.	Unit 1.3 – Secondary Storage: Pupils will investigate the types available and the characteristics of each.
ASSESSMENT : The X Factor Problem.	ASSESSMENT	ASSESSMENT: The X Factor Problem.	ASSESSMENT: 1.1 – End of unit assessment using past paper questions.	ASSESSMENT	ASSESSMENT: 1.2/3 – End of unit assessment using past paper questions.



Information Technology - Year 10 Long Term Curriculum Map						
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B	
The Project Life Cycle Initiation: Pupils will discuss and investigate the inputs and outputs of the initiation phase based on a given scenario	The Project Life Cycle Planning Tools: Pupils will produce an accurate set of planning tools for their chosen scenario	The Project Life Cycle: Execution: Pupils will produce an interactive multimedia presentation that is suitable for purpose and audience.		<b>Testing and</b> <b>Evaluating:</b> Pupils will fully test and evaluate their whole project	Threats: Pupils will investigate the threats faced by individuals, and companies on a day to day basic when using electronic devices.	
ASSESSMENT	ASSESSMENT: Accurate initiation and planning documentation that is suitable for purpose and audience.	ASSESSMENT	ASSESSMENT: A fully interactive multimedia product suitable for purpose and Target audience.	ASSESSMENT: A in depth evaluation and test table will be produced.	ASSESSMENT: End of unit assessment using past paper question	
Computer Science - Year 10 Long Term Curriculum Map						
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B	
<b>1.4 – Wired and</b> wireless networks: Pupils will investigate the purpose, advantage and disadvantage of both	1.5 – Network topologies, protocols and layers: Pupils will investigate the different topologies and their characteristics.	2.4 – Computational Logic: Pupils will explore the different ways data can be represented	Translators and facilities of language: Pupils will explore the different levels of programming languages explaining their purpose.	NEA: Pupils will complete their NEA		
ASSESSMENT	ASSESSMENT: Unit 1.4/5 assessment using past paper questions.	ASSESSMENT	ASSESSMENT: End of unit assessment using past paper questions.	ASSESSMENT	ASSESSMENT	



ICT - Year 11 Long Term Curriculum Map						
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B	
<b>Controlled Assessment:</b> Pupils will complete their 20 hour CA which acclimates to 50% of their final mark.		Legislation and Threats: Consolidate learning, address misconceptions and prepare for post 16 study.	The project Life Cycle: Consolidate learning, address misconceptions and prepare for post 16 study.			
ASSESSMENT	ASSESSMENT: Final project	ASSESSMENT: Past Papers	ASSESSMENT: Past papers			
Computer Science - Year 11 Long Term Curriculum Map						
TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B	
Translators and facilities of language: Pupils will explore the different levels of programming languages explaining their purpose.	Consolidate learning, address misconceptions and prepare for post 16 study ( <i>Paper 1</i> )		Consolidate learning, address misconceptions and prepare for post 16 study. ( <i>Paper 2</i> )			
ASSESSMENT: End of unit assessment using past paper questions.	ASSESSMENT:	ASSESSMENT: Past Papers	ASSESSMENT: Past Papers			