Year 7/8 IT Curriculum Sequence

Subject Intent: Our aim is to inspire and develop students with digital, entrepreneurial and creative skills that will give them the opportunities to succeed with confidence and find fulfilment in the fast-paced world within which they live.

		-	/ -			
	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Big idea/Theme	Introduction to the IT network at NWA	Develop an awareness of different hazards (physical and	Spreadsheets – layout and formatting	Spreadsheets – Basic formula	Programming – understanding variables	Programming – interaction between sprites
		virtual environment)				
Big Idea/Theme	How to use IT appropriately		Spreadsheets – Using arithmetic operators in a spreadsheet	Spreadsheets – creating charts	Programming – understanding if and else statements	Programming – introducing counters (e.g. lives and time)
Big idea/Theme				Spreadsheets – Interpreting charts to inform decision making.	Programming – understanding while loops	Programming – debugging.
Knowledge that needs to stick	Conventions for naming files and folders. Accessing documents, email, Teams and GO online. Sending emails with attachments. Understanding the IT room rules.	Health and safety in a physical IT environment (e.g. trip hazards, seating position, light source etc.) The importance of IT security (e.g. strong passwords) Hazards and acceptable behaviour in the virtual world.	Columns/ Rows (add, delete, edit, widths, heights) Formatting (Backgrounds, fonts, boarders) Arithmetic operators (+,-,/,x)	Basic formula (sum, average, max, min) Charts (time series, cross section data, formatting, labels and titles) Interpreting charts (using %, justifying decision making)	Understand variable names. Using IF statements Using while loops	Introducing complex variables (scores, lives timers) Problem solving

Demonstration of	Evidence of	Submission of an	Spreadsheet to be	Spreadsheet to be	Game to be	Game to be
Knowledge	sending	information poster	created for a	created for a	submitted at the	submitted at the
(Assessment)	attachments of	based on a chosen	business scenario –	business scenario –	end of the project	end of the project
	work to the teacher	element of IT	submitted at the	submitted at the		
	including a print	safety	end of the project	end of the project		
	screen showing		along with short	along with short		
	folders created.		written report	written report		
Links to key stage	Assumed no prior	Assumed no prior	Assumed no prior	Assumed no prior	Students prior	Students prior
2/ prior knowledge	knowledge	knowledge	knowledge	knowledge	knowledge of a	knowledge of a
needed					blocky	blocky
					programming	programming
					language.	language.
Skill set	Understanding of	Understanding of	Basic formula,	Basic formula and	Basic	More advanced
development	the school network	the risks associated	functions and	charts in	understanding of	programming
	and applications	with IT and how to	formatting in	spreadsheet	programming	techniques and
	used routinely in	reduce/ remove	spreadsheets.	(including	techniques	debugging.
	school/ home	them.		interpretation)		
Key Vocabulary	Attachment	RSI	Cell,	Formula,	Variable,	Debugging
(Tier 2/ Tier 3)	Email	Eyestrain	Row,	Sum,	Sprite,	
	Network	Social media	Column,	Cross sectional,	IF statement,	
		Cyber bullying	Formatting,	Time series,	While loop	
		Predatory adult	Arithmetic	Data analysis		
D 11 10		DI. I.	operator		0 1 1	
Reading and Oracy	Acceptable use	Phishing emails	Business scenario		Game plots	
	policy	Social media				
NI. una o una ou c	NI/A	profiles	Tally abouts	Cupating and	Dualdon action	Duahlan sahina
Numeracy	N/A	N/A	Tally charts Arithmetic	Creating and	Problem solving –	Problem solving –
				interpreting charts	effect of changes on variables	effect of changes on variables
			operators Sum	Percentages	OII Variables	OII Vallables
			Average Max			
			Min			
			IVIIII			

Opportunities								
Careers		Internet nanny Ethical Hacking	Marketing officer	Data analyst	Game designer Graphic designer Game tester Programmer	Game designer Graphic designer Game tester Programmer		
Relationship and Sex Education and Health Education	IT H&S	Screen addiction Predatory adults Cyber bullying Online relationships			PEGI Ratings			

Year 9 IT Curriculum Sequence

Subject Intent: Our aim is to inspire and develop students with digital, entrepreneurial and creative skills that will give them the opportunities to succeed with confidence and find fulfilment in the fast-paced world within which they live.

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Big idea/Theme	Compare and	Photoshop skills	Web design –	Creating interactive	Animation –	Game design- Using
	contrast NWA	builder activities.	Analyse an existing	elements	Creating	IF statements and
	students IT use to		website (strengths	(rollovers)	storyboards.	while loops.
	the national		and weaknesses)			
	average					
Big Idea/Theme	Survey and data	Interpreting a client	Generating ideas	Embedding	Skills development	Introducing
	analysis	brief.	for a website (pre-	external content	– pivot stick figure	variables.
			production	(maps/ videos)	animator.	
			documents)			
Big idea/Theme	Secondary research	Producing a	Website branding		Developing an	Testing and
	and comparison	graphical product	(House style, logos		animation in line	debugging
		to meet a brief.	and banners)		with a storyboard.	
Knowledge that	Columns/ Rows	Importing images	Elements used on	Creating rollovers	Understanding of	Understand
needs to stick	(add, delete, edit,	into Photoshop,	webpages, Creating	in Fireworks,	persistence of	variable names.
	widths, heights)	Managing layers,	visualisation	embedding	vision,	Using IF statements
	Formatting	Use of filters, Use	diagrams, meaning	external content,	Development of	Using while loops
	(Backgrounds,	of brightness and	of colours in	Creating web	animation through	Introducing
	fonts, boarders)	contrast, cropping,	graphic design,	forms, Importing	time,	complex variables
	Arithmetic	layer masks, spot	logo design, web	assets into	Storyboarding,	(scores, lives
	operators (+,-,/,x)	heal tool, clone	banner skills.	Dreamweaver.	Using pivot stick	timers)
	Basic formula (sum,	stamp tool, adding			figure to animate.	Problem solving
	average, max, min)	text to an image,				
	Charts (time series,	merging layers.				
	cross section data,					
	formatting, labels					
	and titles)					
	Interpreting charts					
	(using %, justifying					
	decision making)					

Demonstration of	Spreadsheet and	Completed graphic	Completed website	Completed website	Completed	Game to be
Knowledge	Ppt. presentation	that meets the	for Hamerton Zoo	for Hamerton Zoo	animation and	submitted at the
(Assessment)	to be submitted	clients			storyboard.	end of the project
	(with speaker	requirements.				
Links to key store	notes) Students have a	A source of the state of	A course of the proving	A serves and the service of	Assumed the price	Ctudouto maior
Links to key stage 2/ prior knowledge	basic	Assumed no prior knowledge	Assumed no prior knowledge	Assumed no prior knowledge	Assumed no prior knowledge	Students prior knowledge of a
needed	understanding of	Kilowieuge	Kilowieuge	Kilowieuge	Kilowieuge	blocky
needed	layout and					programming
	arithmetic					language.
	operators from					language.
	Year 7.					
Skill set						
development						
Key Vocabulary	Cell,	Canvas				Variable,
(Tier 2/ Tier 3)	Row,	Layer				Sprite,
	Column,	Transform				IF statement,
	Formatting,	Aspect ratio				While loop
	Arithmetic	Filters				Debugging
	operator	Masks				
	Formula,					
	Sum,					
	Cross sectional,					
	Time series,					
- II I -	Data analysis					
Reading and Oracy	Articles re IT use:					Game plots
	National averages/					
	recommendations					
Numaragu	Issues with misuse.	Imaga rasalutica				Droblem calvir -
Numeracy	Tally charts	Image resolution				Problem solving –
	Arithmetic	and size (dpi)				effect of changes on variables
	operators					on variables

Opportunities	Sum Average Max Min Creating and interpreting charts Percentages					
Careers	Data analyst					
SMSC including British Values, Culture and Diversity	Choose an item. Choose an item. Choose an item. Choose an item.	Choose an item. Choose an item. Choose an item. Choose an item.	Choose an item. Choose an item. Choose an item. Choose an item.	Choose an item. Choose an item. Choose an item. Choose an item.	Choose an item. Choose an item. Choose an item. Choose an item.	Choose an item. Choose an item. Choose an item. Choose an item.
Relationship and Sex Education and Health Education						

Key Documents:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/908013/Relationships_Education_Relationships_and_ Sex_Education_RSE_and_Health_Education.pdf

https://www.thecdi.net/write/CDI-Framework-Jan2020-web.pdf