

Year 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 virtual environment)	Spreadsheets – layout and formatting	Spreadsheets – Basic formula	Programming – understanding variables	Programming – interaction between sprites
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, borders) 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