

## Computing 8 Year Overview

Intent: For pupils to embrace the opportunities of technology and to use it purposefully, creatively and responsibly.

Strands				1	Purpose									
Computer Science	Information Technology	Digital Literacy	e-Safety		Networks	Creating Media	Data and Information	Design and Development	Computing systems	Impact of Technology	Algorithms	Programming	Effective use of tools	Safety and Security
					NW	СМ	DI	DD	CS	ΙΤ	AL	PG	ET	SS

	E-Safety (across the year)	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2					
Pre-School	Recognise how to use technology safely at home and in school.	Use digital technology to sto some support. Create conte Begin to use a mouse to nav	ent using digital technology.	Identify algorithms used in e sequence instructions. Reco directional language. Perfor	gnise, use and understand	Describe what personal information is. Understand the importance of asking for help from an adult when on the internet. Identify some ways technology is used at home and in school.						
Reception		screen.		floor robot. Recognise that of commands placed togethe program. Record the program	er can create a simple							
Key Stage 1:	Key Stage 1:											
Year 1 PCs iPads Either Unplugged	Use technology safely and respectfully, keeping personal information private Identify where to go for	Unit name: Technology around us Purpose: CS, AL <u>https://paintz.app/</u> or Paint	ound usPurpose: ET, CMpose: CS, ALSoftware:ps://paintz.app/orhttps://paintz.app/or		Unit name: Grouping data Purpose: DI, AL Software: Powerpoint	Unit name: Digital writing Purpose: ET, CM Software: Microsoft Word	Unit name: Programming animations Purpose: PG, DD Software: Scratch Jr					
Year 2 PCs iPads Either Unplugged	help and support when they have concerns about content or contact	Unit name: IT around us Purpose: NW, CS Software: Powerpoint Unit name: Digital photography Purpose: ET, CM Software: PixLR App		Unit name: Robot algorithmsUnit name: Pictograms Purpose: DI, ET Software: https://www.j2e.com/jit#p ctogram		Unit name: Digital musicPurpose: CM, DDSoftware:https://musiclab.chromeexperiments.com/						
Key Stage 2:												
Year 3 PCs iPads Either Unplugged	Give examples of the risks posed by online communications. Understand that comments made online that are hurtful or offensive are the same as bullying	Unit name: Connecting Computers Purpose: NW, CS Software: https://paintz.app/	Unit name: Stop-frame animation Purpose: ET, CM Software: iMotion App	Unit name: Sequencing sounds Purpose: PG, DD Software: Scratch logins	Unit name: Branching databases Purpose: DI, ET Software: https://www.j2e.com/jit5?fi leId=FDrqUQoSY1jKiBHN#b ranch	Unit name: Desktop publishing Purpose: ET, CM Software: Adobe Spark or Publisher	Unit name: Events and actions in programs Purpose: PG, DD Software: Scratch logins					
Year 4 PCs iPads Either Unplugged	Use features of applications and devices in order to communicate ideas, work or messages professionally	Unit name: The Internet Purpose: NW, SS Software: https://scratch.mit.edu/pr ojects/63473366/editor/	Unit name: Audio Production Purpose: ET, CM Software/ Hardware: Audactity/ headphones	Unit name: Repetition in shapes Purpose: AL, PG URL: <u>https://turtleacademy. com/playground</u> <u>https://fmslogo.sourceforg</u> <u>e.io/</u>	Unit name: Data logging Purpose: CS, DI Hardware: Data Loggers/ temperature sensor	Unit name: Photo editing Purpose: ET, CM URL: <u>https://paint.net/</u>	Unit name: Repetition in games Purpose: PG, DD Software: Scratch logins					



## Computing 8 Year Overview

Year 5 PCs iPads Either Unplugged	Give examples of the risks of online communities and demonstrate knowledge of how to minimise risk and report problems.	Searching Purpose: NW, ET Software: Powerpoint	Unit name: Video production Purpose: CM, DD Software: iMovie/ Green screen App Microsoft Photos	physical computing Purpose: PG, CS Hardware: Crumble	Unit name: Flat-file databases Purpose: DI, ET Software: https://www.j2e.com/data /examples/countries j2e logins Lessons:	Unit name: Introduction to vector graphics Purpose: ET, CM Software: Google Drawings App/ Logins	Unit name: Selection in quizzes Purpose: AL, PG Software: Scratch logins
Year 6 PCs iPads Either Unplugged	of online comments and show responsibility and sensitivity when online. Choose the most suitable applications and devices for the purposes of communication	Communication and		Unit name: Variables in games Purpose: PG, DD ncce.io/scorechange or /scoreboard ncce.io/pongstarter or fruit catcher or catchertemplate or chatbocode/ bananas	Unit name: Introduction to spreadsheets Purpose: ET, DI Software: Microsoft Excel	Unit name: 3D modelling Purpose: ET, CM Software: Tinkercad login	Unit name: Sensing movement Purpose: PG, CS Hardware: Micro:bit Software: Microsoft Make Code