

LAUTUS TRUST Computing 8 Year Overview

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

Strands:							
Computer Science	Information Technology	Digital Literacy	e-Safety				

Purpose									
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	IT	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 store support. Create content using use a mouse to navigate arour		Identify algorithms used in everyday life. Begin to sequence instructions. Recognise, use and understand directional language. Perform a simple program on the floor robot. Recognise that a string of instructions or commands placed together can create a simple program. Record the program used using symbols.		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									
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 https://paintz.app/ or Paint	Unit name: Digital painting Purpose: ET, CM Software: https://paintz.app/ or Paint	Unit name: Moving a robot Purpose: AL, PG Hardware: Bee-Bot	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 Key Stage 2:	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 algorithms Purpose: AL, PG Hardware: Bee-Bots/Bee-Bot App	Unit name: Pictograms Purpose: DI, ET Software: https://www.j2e.com/jit#pictogram	Unit name: Digital music Purpose: CM, DD Software: https://musiclab.chromeexperiments.com/	Unit name: Programming quizzes Purpose: PG, DD Software: Scratch Jr Logins		
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?fileI d=FDrqUQoSY1jKiBHN#bra nch	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/projec ts/63473366/editor/	Unit name: Audio Production Purpose: ET, CM Software/ Hardware: Audactity/ headphones	Unit name: Repetition in shapes Purpose: AL, PG URL:https://turtleacademy.co m/playground https://fmslogo.sourceforge.i o/	Unit name: Data logging Purpose: CS, DI Hardware: Data Loggers/ temperature sensor	Unit name: Photo editing Purpose: ET, CM URL: https://paint.net/	Unit name: Repetition in games Purpose: PG, DD Software: Scratch logins		



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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. Understand the effect of online comments and	Purpose: NW, ET Software: Powerpoint	Unit name: Video production Purpose: CM, DD Software: iMovie/ Green screen App Microsoft Photos	Unit name: Selection in physical computing Purpose: PG, CS Hardware: Crumble controller+starter kit+ motor	Unit name: Flat-file databases Purpose: DI, ET Software: https://www.j2e.com/data/ex amples/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	show responsibility and sensitivity when online. Choose the most suitable applications and devices for the purposes of communication	and Collaboration	Unit name: Webpage creation Purpose: CM, DD Software: Google Sites	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