Computing Whole School Overview

Term	EYFS	KS1		KS2			
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn Term	**Computing Systems and Networks** What is technology? (Computing systems and networks) **Creating Media** How can I create patterns using the iPad? (Creating Media) Purple Mash	**Computing Systems and Networks** What is technology and how do we use it responsibly? (Computing systems and networks) Purple Mash 2Build **Creating Media** How can we paint using computers? (Creating Media) Purple Mash 2 Paint	**Computing Systems and Networks** How can computers be used? (computing systems and networks) **Creating Media** How do you take a photograph with a digital device? (Creating Media) iPads	**Computing Systems and Networks** What is an input, process and output? (Computing Systems and Networks) **Creating Media** Can a picture move? (Creating Media) iPads – IMotion	**Computing Systems and Networks** What is a network and how do they connect to each other? (Computer Systems and Networks) **Creating Media** What software and computing skills do we need to create podcasts? (Creating Media) iPads – Lexis Audio Editor	**Computing Systems and Networks** How do search engines find things on the World Wide Web? (Computing Systems and Networks) **Creating Media** What techniques can we use to make a video? (Creating Media) iPads – iMovie	**Computing Systems and Networks** How do you use the internet? (Computing Systems and Networks) **Creating Media** What makes a good website? (Creating Media) Google Sites
Spring Term	**Data and Information** How can I record my own work? (Data and Information) iPads	**Programming** What instructions do we need to program a robot to move? (Programming) Beebots **Data and Information** Why do objects and groups of objects need a label/group name? (Data and Information) Seesaw	**Programming** What do we need to build a programme? (Programming) Beebots **Data and Information** What do we use tally charts for? (Data and Information) Purple Mash	**Programming** How can Scratch be used to programme a set of objects? (Programming) Scratch **Data and Information** How is a branching database created? (Data and Information) J2Data Branch	**Programming** How can you programme a computer by typing commands? (Programming) Logo **Data and Information** What data can be collected using sensors? (Data Information) Data loggers	**Programming** How do we control a simple circuit connected to a computer? (Programming) Crumble Kit **Data and Information** Why do we use databases? (Data and Information)	**Programming** What could be set and changed to improve a game? (Programming) Scratch **Data and Information** How can we modify spreadsheets? (Data and Information) Computers – Microsoft excel
Summer Term	**Programming** How can I move my toy one spot to another? (Programming) Beebots	**Creating Media** What could word processors be used for? (Creating Media) Computers- Purple Mash 2Write **Programming** How are algorithms created? (Programming) Espresso Coding	**Creating Media** How can a computer be used to make music? (creating media) Purple Mash **Programming** Can you design, build and improve your own project? (Programming) ScratchJr	**Creating Media** How do text and images communicate information? (Creating Media) Computers – Microsoft Publisher **Programming** How do you control movement in computer games? (Programming) Scratch	**Creating Media (removed)** How can we edit images using software? (Creating Media) paint.net **Programming** Which types of loops are effective? (Programming) Scratch	**Creating Media** What are vector drawings? (Creating Media) Google drawings **Programming** How is selection used in computer programs? (Programming) Scratch	**Creating Media** What is 3D modelling? (Creating Media) Tinkercad **Programming** What is micro:bit? (Programming) micro:bit