

### Computing Whole School Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Foundation Stage	Use of iPads for photography, Purple Mash, use of the interactive whiteboard, headphones to listen to music, recording devices, Beebots, technology around us (machines)					
Year 1	Online safety  Exploring Purple Mash	Grouping and sorting  Pictograms	Lego builders-follow and create simple instructions  Maze explorers-create and debug a simple set of instructions	Animated story books-add animation, sound and voice recordings	Coding -plan and make a simple computer program	Spreadsheets-enter data and images into spreadsheet cells  Technology outside school
Year 2	Coding-know how to create a computer program using an algorithm	Online safety- email  Spreadsheets-create a manual block graph within a spreadsheet	Questioning - use a binary tree to answer questions	Effective searching-navigate a web page	Creating pictures-recreate impressionism, surrealism and Pointillism	Making music- edit and combine sounds Presenting ideas - use presentational software
Year 3	Coding-use flowcharts to create a program. Run test and debug own program.	Online safety- passwords and blogs  Spreadsheets-describe and know how to find a cell location	Touch typing  Email (including email safety)	Branching databases-create and debug	Simulations-use and evaluate simulations  Graphing-select most appropriate chart type	Presenting with PowerPoint  Microbit-begin to code
Year 4	Coding-use and interpret an IF/ELSE statement	Online safety - digital footprints  Spreadsheets-model real life situations	Writing for different audiences- font size and style  Logo	Animation- onion skinning and stop motion  Effective searching	Hardware investigators  Making music- create own composition	Artificial intelligence-create media such as images and music  Physical devices: Microbit- create infinite loops in control systems to monitor

						environmental changes
Year 5	Coding	Online safety - image manipulation, appropriate and inappropriate text, photos and videos  Spreadsheets- use formulae and tools	Databases- create and search for information  Game creator- plan, make and evaluate games	Modelling-design, refine and print a 3D model	Concept maps- create a concept map to retell stories  Word processing	External devices- sound detection, alarms etc.
Year 6	Coding	Online safety-secure sites  Spreadsheets-use to plan actions	Blogging  Text adventures-code a map-based adventure game	Networks	Quizzing  Understanding binary use a converter to check binary conversions	Spreadsheets-Google Sheets