

Computing Curriculum Project Overview

Cycle A & B			
Phase	Autumn	Spring	Summer
EYFS	In EYFS pupils are taught: <ul style="list-style-type: none"> About technology in the home Programming of Beebots Using an IWB Use of Internet for information gathering and internet safety 		
Year 1	1) Computing systems and networks – Technology around us Recognising technology in school and using it responsibly. Software – Paint	2) Creating media – Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally. Software – Microsoft Paint	3) Data & information – Grouping data Exploring object labels, then using them to sort and group objects by properties. Software – Microsoft Powerpoint 4) Programming – Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes. Software – fixed-movement floor robot
Year 2	1) Computing systems and networks – IT around us Identifying IT and how its responsible use improves our world in school and beyond. Software – Microsoft Powerpoint	2) Creating media – Digital photography Capturing and changing digital photographs for different purposes. Software – iPad app	3) Data & information – Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer. Software – Purplemash Pictogram 4) Programming – Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions. Software - fixed-movement floor robot

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Year 3	1) Computing systems and networks – Connecting Computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks.	2) Creating media – Stop-frame animation Capturing and editing digital still images to produce a stop-frame animation that tells a story.	3) Data & information – Branching Databases Building and using branching databases to group objects using yes/no questions. 4) Programming – Sequencing sounds Creating sequences in a block-based programming language to make music.
Year 4	1) Computing systems and networks – The Internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content.	2) Creating media – Audio Production Capturing and editing audio to produce a podcast, ensuring that copyright is considered.	3) Data & information – Data Logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation. 4) Programming – Repetition in games Using a block-based programming language to explore count-controlled and infinite loops when creating a game.
Year 5	1) Computing systems and networks – Systems & searching Recognising IT systems in the world and how some can enable searching on the internet.	2) Creating media – Video Production Planning, capturing, and editing video to produce a short film.	3) Data & information – Flat-file databases Using a database to order data and create charts to answer questions. 4) Programming – Selection in physical computing Exploring conditions and selection using a programmable microcontroller.
Year 6	1) Computing systems and networks - Communication and collaboration Exploring how data is transferred by working collaboratively online.	2) Creating media – Web-page creation Designing and creating webpages, considering copyright, aesthetics and navigation.	3) Data & information – Introduction to spreadsheets Answering questions by using spreadsheets to organise and calculate data. 4) Programming – Sensing movement Designing and coding a project that captures inputs from a physical device.