Computing Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Covered in continuous provision	Introduction to computers – using a mouse and clicking to make a selection (online jigsaws)	Key vocabulary related to computers – parts of the computer (online colouring) E-safety	Using computers for a purpose (simple phonics games)	Completing a simple computer programme/game (phonics and maths games)	Programming – positional language and BEEBOTS	Creating posters using Paint E-Safety
Year 1	Computing systems and networks –	Digital painting	Moving a robot	Grouping data	Digital writing	Programming animations
	Technology around us Lesson objectives Technology in our classroom Using computer technology Developing mouse skills Using a computer keyboard Developing keyboard skills Using a computer responsibly	 Lesson objectives How can we paint using computers? Using shapes and lines Making careful choices Why did I choose that? Painting all by myself Comparing computing art and painting 	Lesson objectives	Lesson objectives Label and match Group and count Describe and object Making different groups Comparing groups Answering questions	Lesson objectives Exploring the keyboard Adding and removing text Exploring the toolbar Making changes to text Explaining my choices Pencils or keyboard	Lesson objectives Comparing tools Joining blocks Making a change Adding sprites Project design Following my design
Prior Learning	Continuous provision using computers in the EYFS area. Year 2 – Information technology around us	Year 2 – Digital painting	Use of beetbots Year 2 – Robot algorithms Year 3 – Events and actions in programs		Use of games being used in continuous provision.	Year 4 – Events and actions in programs
Year 2	Information technology around us	Digital photography	Robot algorithms	Pictograms	Making music	Programming quizzes
	Lesson objectives What is IT IT in school IT in the world The benefits of IT Using IT safely Using IT in different ways	Lesson objectives	Lesson objectives	Lesson objectives Counting and comparing Entering data Creating pictograms What is an attribute? Comparing people Presenting information	Lesson objectives How music makes us feel Rhythms and patterns How music can be used Notes and tempo Creating digital music Reviewing and editing music	Lesson objectives
Prior Learning/future learning	Year 1 – Computer systems and networks – technology around us Year 3 – Computer systems and networks Year 4 – The internet	Year 1 – Digital painting	Year 1 – Moving a robot	Year 1 – grouping data Year 3 – branching databases	Year 3 – Sequence sounds Year 4 – Audio production	Year 5 - Selection in quizzes
Year 3	Computer systems and networks	Stop frame animations	Sequence sounds	Branching databases	Desktop publishing	Events and actions in programs
	 Computer systems and networks Stop frame animations Sequencing sounds Branching databases Desktop publishing Events and actions in programs 	 Lesson objectives Can a picture move? Frame by frame What's the story? Picture perfect 2 Evaluate and make it great! Lights, camera, action! 	 Lesson objectives Introduction to Scratch Programming sprites Sequences Ordering commands Looking good Making an instrument 	 Lesson objectives Yes or no questions Making groups Creating a branching database Structuring a branching database Planning a branching database Making a dinosaur identifier 	 Lesson objectives Words and pictures Can you edit it? Great template Can you add content? Lay it out Why desktop publishing? 	 Lesson objectives Moving a sprite Maze movement Drawing lines Adding features Debugging movement Making a project

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Prior Learning/ Future learning	Year 2 – Information technology around us Year 4 – The internet	Year 1 – Digital painting Year 2 – Digital photography Year 4 – Photo editing	Year 2 – Making music Year 4 – Audio production	Year 1 – grouping data Year 5 - Flat-file database	Year 1 - Digital writing	Year 1 – programming animations
Year 4	The internet Lesson objectives Connecting networks What is the internet made of Sharing information What is a website Who owns the web Can I believe what I read?	Audio production Lesson objectives Recording sound Editing audio Planning a podcast Creating a podcast Combining audio Evaluating podcasts	Repetition in shapes Lesson objectives Programming a screen turtle Programming letters Patterns and repeats Using loops to create shapes Breaking things down Creating a program	Data logging Lesson objectives Answering questions Data collection Logging Analysing data Data for answers Answering my question	Photo editing Lesson objectives Changing digital images Recolouring Cloning Combining Creating Evaluating	Repetition in games Lesson objectives Using loops to create shapes Different loops Animate your name Modifying a game Designing a game Creating our games
Prior Learning/Future learning	Year 2 – Information technology around us Year 3 – Computer systems and networks Year 5 – Systems and searching	Year 2 – Digital photography Year 5 – video production	Year 5 – Vector drawing	Year 5 – Selection in physical computing Year 6 - Sensing	Year 1 – Digital painting Year 2 – Digital photography	Year 3 - Events and actions in programs Year 6 – Variables in games
Year 5	Systems and searching Lesson objectives Systems Computer systems and us Searching the web Selecting search results How search results are ranked? How are searches influenced?	Video production Lesson objectives What is video? Filming techniques Using a storyboard Planning a video Importing and editing video Video evaluation	Selection in physical computing Lesson objectives Connecting crumbles Combining outputs Controlling with conditions Starting with selection Drawing designs Writing and testing algorithms	Flat-file database Lesson objectives Creating a paper-based database Computer database Using a database Using search tools Comparing data visually Databases in real life	Vector drawing Lesson objectives The drawing tools Creating images Making effective drawings Layers and objects Manipulating objects Creating a vector drawing	Selection in quizzes Lesson objectives Exploring conditions Selecting outcomes Asking questions Designing a quiz Testing a quiz Evaluating a quiz
Prior learning/ future learning	Year 3 – Computer systems and networks Year 4 – The internet Year 6 – Communication and collaboration	Year 2 – Digital photography Year 4 – Audio production	Year 6 - Sensing	Year 1 – grouping data Year 3 – branching database	Year 4 – Repetition in shape	Year 2 - Programming quizzes
Year 6	Lesson objectives	Creating Media – Web page creation Lesson objectives What makes a good website How would you layout your webpage? Copyright or copywrong How does it look? Follow the breadcrumbs Think before you link	Variables in games Lesson objectives Introducing variables Variables in programming Improving a game Designing a game Design to code Improving and sharing	Introduction to spreadsheets Lesson objectives Collecting data Formatting a spreadsheet What's the formula? Calculate and duplicate Event planning Presenting data	 Lesson objectives Introduction to 3D modelling Modifying 3D objects Make your own name badge Making a desk tidy Planning a 3D model Making your own 3D model 	Lesson objectives The Mirco:bit Go with the flow Sensing inputs Finding your way Designing a step counter Making a step counter

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Prior learning	Year 3 – Computer systems and	Year 3 - Events and actions in	Year 1 - Digital writing	Year 5 – Selection in physical
	networks	programs	Year 3 – Desktop publishing	computing
	Year 4 – The internet	Year 4 – Repetition in games		
	Year 5 – Systems and searching			