Subject: Computing

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	Developing basic skills – operating basic equipment, turning on and off Operating mechanical toys, wind up, pull back, Operating simple equipment – CD player, on, off		Showing an interest in using real objects, tablets, cameras, Making toys work by pressing buttons or lifting flaps. Beginning to visit computer suite to develop simple mouse skills with left button.		Interacting with a simple program on a computer, eg. 2simple Draw to develop motor skills.	
Reception	IT -Introduction to computers – logging on in Navigating programs 2simple CD Player – Harvest Songs Body parts Similarities and differences Past and present experiences	IT – firework pictures Diwali – festival of lights CD Player – Christmas Songs Autumn changes Christmas story Special times for families and friends	IT – New Year Easter Songs Opening apps on Ipad moving between apps and closing apps	IT – begin to develop using the keyboard (spacebar, backspace, number pad/keys, letters, shift) Log in to a computer Log out of a computer	IT – using beebot software IT – Photography (Digital Camera) Changes over time Similarities and differences of living things – plants/animals	
Year 1	Computer Literacy *To ask questions about how computers 'think' (sequentially)*	Online Safety *To understand who/where to go if they have concerns about*	Coding *To write simple instructions (algorithms) to be used in a simple application*	Graphics/Digital videos *use a digital camera or digital video camera to take pictures*	Sound *with support, use music software to experiment, create and play*	Research *To understand that information can be found using the internet*

	To understand that computers operate using algorithms; as a set of instructions Recognise ICT and its uses outside of school Word Processing put text on screen use upper and lower case use the Space bar to leave a space between words use the Enter key to create a new line use the Shift key to make a capital letter	*content or contact online*	*(beebots, Scratch Jr, instruction writing)* *To find simple errors (debug) in instructions (algorithms) with support*	*with support, add captions or sound to digital pictures or video*	*their own compositions*	
Year 2	Computer Literacy To answer simple questions about what they are doing by thinking computationally (what will happen if…?) Word Processing	Online Safety To understand who they can safely communicate with online	Graphics/Digital videos with support, be able to do simple manipulation of images using an art package (Photobooth app/word)	Coding control a programmable robot/app, with a purpose (defined by either teacher or child) (BeeBot / BeeBot app/ Scratch Jr)	Research With support, use apps / programs / websites to find information including simple search engines with support (Favourites file,	Sound be aware that sound can be recorded on the computer / iPad as a sound file

	change the font style change the font size change the font colour		be able to use an art package to create an image (painting, poster etc)	understand that , once programmed a programmable robot/app can repeat the same instructions plan and create a sequence of instructions to a move a programmable robot/sprite	hyperlinks set up by the teacher) use the Internet / apps to find information for a topic	
Year 3	Email	Search Engines / Online Safety	Presentation and research	Movie Maker/Video	Drawing and desktop publishing - Publisher	Coding Shapes and debugging
Year 4	Word processing	Online safety (Twinkl) Data logger (Science)	Animation	Coding Scratch quizzes	Data Handling (simple spreadsheets)	Video presentation e.g. green screen
Year 5	Presentation and research Powerpoint presentation of about the Rainforest.	Coding – Scratch. Developing a maze game.	Coding – Scratch Designing a more complex labyrinth game.	3D modelling (Twinkl)/ Networks and online safety	Webpage Design. Newcastle bridges.	Radio station- podcasts
Year 6	Word Processing Using Microsoft Office Word, Publisher, PowerPoint, email	Coding- Scratch We are Game Developers (5.1)- Develop interactive games	Spreadsheets - Twinkl	Media Film making/ green screen- Twinkl	Internet Safety How does the internet work? E-safety- Twinkl	Multimedia - Leavers' PowerPoint, video and images