



COMPUTING CURRICULUM OVERVIEW – updated September 2021-2022

	Autumn	Spring	Summer
Year 1	Let's create – digital text, creating digital content, word banks, storing digital content, creating digital images, logical reasoning, images from sources, taking photographs, recording sounds, E-safety. (Software - 2simple paint and publisher)	Visual information – different forms of information, info in graphs, presenting information, mistakes in information, technology that records changes in conditions, branching databases, E-safety. (Software – 2simple and clicker)	Discovering Programming - how comps operate, programmable devices, algorithms, logical reasoning, programming languages, commands, E-safety. (Software – espresso, beebots and roamers)
Year 2	Messages and virtual worlds – sending messages, emails, online spaces, staying safe, virtual worlds, games, algorithms, characters, E-safety. (Software – lgfl email, 2 simple city and DIY)	Getting creative – digital content, Input devices, hardware and software, storing content, writing, images, commands, animating objects, E-safety. (Software – 2 simple create a story, publish, write, animate)	Starting research – info from different sources, WWW, websites, key words, un-true info, organising ideas and objects, E-safety. (Software – infant encyclopaedia, 2 simple connect)
Year 3	Bringing images to life – changing and editing digital images, pixels, internal computer components, consent for images, appropriateness of images, animation, animation projects, algorithms, controlling an object, E-safety. (Software - photostory3, magic lanterns, 2 simple animate developing tray)	Programming and Games – simulations, abstractions, choices, algorithms, sequences, decomposition, commands, programming, chat facilities, E-safety. (Software – scratch, turtles and roamers, text tease)	Keeping informed – difference between data and information, data loggers, sensors, microscopes, cameras, branching databases, questioning, database files and records, accuracy, E-safety. (Software – 2 simple 2 investigate, text tease, Microsoft access)
Year 4	Accuracy Counts – internet, computer networks, www, email, film, TV, radio, storing documents, key words, hyperlinks, URLs, search engines, malware, electronic data, spreadsheets. (Software – Kids clicks, MS excel)	Developing communication – communication devices, email, online safety, blogs, recording sound, sound editing software, modifying sounds. (Software – Audacity, 2 simple sound, J2bloggy)	Authoring - storing data, bytes, past and current media storage, storing files including on the cloud, operating systems, word processing, digital objects, multimedia texts (Software – MS word, MS publisher, powerpoint)
Year 5	Data matters – big data, file extensions, binary numbers, computer files, IP addresses, digital searching, digital footprint, databases fields and development. (Software – 2 simple investigate, MS excel)	Robotics and systems – sensors and algorithms, abstraction, program designs and languages, variables, screen displays, sequence, selection and repetition, controlling output. (Software – raspberry pi, arduinos)	Morphing images – 3D graphical modelling, graphical tools, operating systems, films and animations, sequencing, adding sounds, editing, saving. (Software – MS movie maker)
Year 6	Staying Connected - safe use of online technology, personal information, location services, blogs and comments, micro-blogs, copyright rules, wiki research, bias information. (Software – J2bloggy, think you know, pb works)	Information models – spread sheet structure, editing tools, calculation tools, data- loggers and sensors, changing cell format, spread sheet models and variables, graphs. (Software – MS excel, gap minder)	Sound works - digital sound, history of sound recording, sound editing software, broadcasts, copyright, types of sound files, exporting recordings, podcasts, streaming, music compositions. (Software – Audacity, 2 simplemusic, lplayer, sound cloud)