Computing Long Term Plan

	Prime Areas	Specific areas
Reception	**Control, use, record and play back sound** We have confidence- *Tizzy's first tools, microphones* We can understand messages- *Talking tins, iPads, quickvoice recorder* We can record soundtracks- *Garageband, keyboards* We are djs- *Internet, Word, PowerPoint, karaoke machine, flashing lights, projector* We can listen- *Walkie-talkies, telephone, radio*	**We are digital readers-** choosing and opening applications and engaging with digital text *Orford Owl, Sebastian Swan, CBeebies story time, 2simple talking story*
	Switch on technology, open and close files We are game players- *Beebots, CBeebies games, The land of me* We are shape makers-*Interactive whiteboard*	**Choose and use tools in an art application by manipulate objects on screen** We are creative- *Tuxpaint, 2paint* We can take turns- *Paint, Movie maker*
	Take digital photos and combine them with text and sound We are successful *PowerPoint, Clicker, Photo story, Tizzy's first tools, Cameras* We have feelings *PowerPoint, Clicker, Photo story, Tizzy's first tools, camera, microphone* We are community members *Textease, PowerPoint, Clicker, Tizzy's first tools, Our story, Talking tins* We can observe-*Digital microscope*	**Programme a programmable toy and control a remote controlled toy** We can count- *Beebots* We are designers- *Remote controlled toys*
	Investigate everyday technologies We can drive – *PowerPoint, Clicker, Photo story, Tizzy's first tools, 2simple 2publish, cameras, printer* We can exercise- *Countdown timer, iPad, forehead thermometer, talking tins* We can understand instructions -*Audacity, PowerPoint, Clicker, Photo story, Tizzy's first tools, 2crate a story, Microwave, digital scales, microphone*	**Basic computer skills that need teaching this year** ● Use a mouse and know what the buttons do ● Begin to type on the keyboard ● Find their way around an iPad, opening folders and going on games ● Name the monitor, keyboard and mouse ● Play on programs already opened up on the computer
	Use video cameras to record video clips for a short film We are film producers- *Moviemaker, iPads* We are talkers- *Flip cams, iPads, Movie maker*	

Skills such as using Word, Excel, PowerPoint, Publisher and using cameras and filming should be reinforced through cross curricular work.

Skills such as copy & paste, save, open, print, font changing, searching images online must be taught when needed during cross curricular work.

E-safety is to be taught as a unit throughout the year. This is to be reinforced during each Computing unit through conversations.

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	Year 1	Year 2	Year 3
Autumn	**We are treasure hunters**- using programmable toys *Beebot, Blue-Bots app* **E-safety**	**We are astronauts**- program on screen *Scratch* *iPads- ScratchJr* **E-safety**	**We are programmers**- programming an animation *Scratch* **E-safety**
Spring	**We are digital artists**- creating work inspired by great artists *iPads - brushes Redux, Autodesk, Sketchbook* **We are publishers** – creating a multimedia eBook about our achievements *iPads – book creator* **Create a digital card using Microsoft Word** ● Log on to the computers ● Open up their own programs using the program menu ● Print work ● Type on Microsoft word ● Use the return key to make a new line	**We are game testers**- explore how games work *Scratch, Fix the factory* **We are safe researchers** - Research a topic and produce a fact sheet/PowerPoint *Popplet, Google Slides* ● Save work into folders on their document drive ● Open work from folders in their document drive ● Access the internet and type in web addresses ● Change text size, colour and font ● Position text ● Add a picture from a saved file and position it ● Copy and paste ● Add text to slides on PowerPoint ● Begin to spell check	**We are presenters**- videoing performance *Greenscreen* **We are who we are** – creating a presentation about ourselves *PowerPoint* ●Add extra slides to PowerPoint ●Create new folders in their own document drive ●Add pictures direct from the internet ●Create tables and text boxes ●Add headers and footers in Word ●Add columns in Word ●Change the page layout ●Use spell check effectively **Extra skills** ●Print from the iPads ●Save work on the iPads to the camera roll
Summer	**We are rhythmic** – creating sound patterns in ScratchJr and Garageband *iPads – Scracthjr, garageband* **We are detectives**– using data to solve clues *iPads – Popplet/FreeMind/Bubbl.us, Microsoft forms*	**We are photographers**- taking better photos *iPads* **We are zoologists**- collecting data about bugs *Excel, Picasa, Google maps*	**We are co-authors** – producing a wiki *Google slides, popplet* **We are opinion pollsters**- collecting and analysing data *Google forms*

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	Year 4	Year 5	Year 6
Autumn	**We are software developers-** develop an educational game *Scratch*	**We are game developers-** develop an interactive game *Kodu*	**We are computational thinkers –** *mastering algorithms for searching sorting maths* *Scratch, iPads-Snap!*
	E-safety	**E-safety**	**E-safety**
Spring	**We are makers-** Coding for micro:bit *Micro:bit*	**We are cryptographers-** cracking codes *Scratch*	**Stop motion films**
	We are musicians- produce digital music *Garage band*	**We are architects-** create a virtual space *SketchUp*	**We are advertisers-**create a short television advert *iMovie*
Summer	**We are artists-** fusing geometry and art *Scratch, Inkscape, Terragen*	**We are adventure gamers –** creating an interactive adventure using presentation software *Google slides, voice recorder, ipads, PowerPoint* **Various topics can be adapted to cover the skills below** ● Use formulae in Excel ● Add hyperlinks and sounds to PowerPoint ● Use the thesaurus in Word	**We are publishers –** design and make a yearbook *Publisher*
			Various topics can be adapted to cover the skills below or the Twinkl unit used Spreadsheets ●Reinforce previous skills ●Enter text and numbers into a spreadsheet. ●Identify and refer to cells by row and column. ●Begin to enter formulae with the SUM function. ●Be able to enter formulae into cells. ●Edit data and discuss the effect on results. ●Use further functions including AVERAGE, MIN and MAX. ●Create graphs. ●Design their own spreadsheet for a specific purpose
	We are meteorologists- present the weather *Excel, PowerPoint* ● Add transitions and effects to PowerPoint ● Change the design of slides in PowerPoint ● Crop images ● Create graphs and tables in Excel	**We are VR designers-** experimenting with virtual and augmented reality *Ipads, Google Cardboard, Google Street view, Garageband, CoSpaces*	

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