Nursery Technology Provision:

In Nursery children are introduced to a range of technology and how it used. This lays the foundations for the Reception year

Experiences	Children will know
Touchscreen used for children to independently access programmes.	I know that I can move things on the screen by dragging I know that I can click on something and it will generate response. I know that technology can create and show images, video and sound.
Coding Critters are used in Key person time and then in Provison. In provision they are then supported through the SHREc approach with staff modelling eg routes linked to maths	I know that I can use buttons to make the coding critters move forwards and backwards. I can use and understand vocab such as 'Instructions'
3 ipads used with apps such as beebots and coding safari reinforcing as above	I know that I can use buttons to make the coding critters move forwards and backwards. I can use and understand vocab such as 'Instructions' ad directional words I know to tell an adult if I see something I am not sure of or I am stuck.
Programming is also developed through the sensory eggs eg using the remote to change to light colour, turning the light panel off and on.	I know that the remote control changes the colours of the sensory eggs. I know what the on and off buttons do.

Reception Technology Planning and progression Updated Feb 24

Predominant Area of Computing*		
Computer Science	Information Technology	Digital Literacy

*Most units will include aspects of all strands.

DL Mouse and touch screen skills To know how to use a laptop touchpad To be able to use click and drag to move objects purposefully. To be able to move the mouse purposefully. I can use a mouse to make the cursor move around the computer screen where I want it to go. To know how to move and click on objects on an ipad	**DL Keyboard skills** I know what a keyboard looks like on a laptop and on an ipad. I can find letters of my name on the alphabet on a keyboard. I can put spaces between words in my typed work I know that the back space key deletes my typing. I can log in to purple mash and doodle maths	**IT Drawing skills** I know I can use a laptop or ipad to draw I can use 2paint to draw a simple picture on either an ipad or a laptop I can try the different tools that I can draw with on the computer. I can use the undo button correctly. I can use the erase button. I can use a touchscreen device purposefully.	**CS Robots** I can talk about where I am moving a toy vehicle whilst I am moving it. I know how to follow simple direction instructions using forward, backwards, turn, left and right I can describe the route taken by a toy vehicle. I can program a 3-step route for a floor robot or online toy	**Sounds** I know I can use the laptop and ipad to make sounds. I can make sounds on a laptop or ipads using 2beat, garage band or 2explore I can use a device to record myself speaking and play back the sounds. (mashcam)	**IT Photography** I know what a photo is and that is a printed image not a drawing. I can take photos using a digital device eg KITT or an ipad. I know that I need to ask for consent to take a photo of a person. **Introduction to quizzs** I Know what a quiz is. I can complete a simple quiz. I can type answers to a quiz. I can sequence pictures in a quiz.
CS Computational Thinking I can follow simple oral algorithms I can spot simple patterns I can sequence simple familiar tasks	**CS Computational Thinking** I can follow simple oral algorithms I can spot simple patterns I can sequence simple familiar tasks	**CS Computational Thinking** I can follow simple oral algorithms I can spot simple patterns I can sequence simple familiar tasks	**CS Computational Thinking** I can follow simple oral algorithms I can spot simple patterns	**CS Computational Thinking** I can follow simple oral algorithms	**CS Computational Thinking** I can follow simple oral algorithms I can spot simple patterns I can sequence simple familiar tasks

			I can sequence simple familiar tasks	I can spot simple patterns	
Resources introduced and revisited in continuous provision including KITT robots, Codapillars, Easiscopes, Metal detectors I can talk about what technology is used at home. I can talk about what technology is used outdoors. I can talk about what technology is used in the world around me.					

Direct Adult Teaching

	Core Knowledge	Key teaching points	Resources	Key vocabularly
Autumn 1	**DL Mouse and touch screen skills** To know how to use a laptop touchpad To be able to use click and drag to move objects purposefully. To be able to move the mouse purposefully. I can use a mouse to make the cursor move around the computer screen where I want it to go. To know how to move and click on objects on an ipad	Introduce what a laptop is and name the parts keyboard, screen touchpad also called a mouse Introduce an ipad and name, sometimes called a tablet. Touchscreen On the laptop encourage use of two pointy fingers. Left hand to click the left button and right hand to move the mouse.	Simple city: moving images using click and drag.	Laptop Screen touchscreen keyboard Mouse Pointer Click Drag Back Log in
Autumn 2	**DL Keyboard skills** I know what a keyboard looks like on a laptop and on an ipad. I can find letters of my name on the alphabet on a keyboard.	Recap parts of a laptop and an ipad. Focus on the keyboard on both devices. Model how to use the keys to type your name in lower case initially and model how to erase using the back space key. Move on to introduce the enter key to move down a line and then type your name again	Purple mash 2write	Keyboard Key Back space Type Letters Enter

	I can put spaces between words in my typed work I know that the back space key deletes my typing. I can log in to purple mash and doodle maths	Type your name to log into purple mash and doodle maths.		
Spring 1	IT **Drawing skills** I know I can use a laptop or ipad to draw I can use 2paint to draw a simple picture on either an ipad or a laptop I can try the different tools that I can draw with on the computer. I can use the undo button correctly. I can use the erase button. I can use a touchscreen device purposefully.	Set up as a 2do. Leave 2paint open in provsion Recap parts of a laptop and an ipad and how to logon to purple mash. Introduce how 2paint can be used to create and print a picture. Introduce: -How to take the top off a pen and click and drag to make a mark -How to select another colour How to use the 'undo' button -How to choose the 'erase' tool. How to use the 'Abc to type your name How to save and exit	Purple mash 2 paint	Laptop Screen touchscreen keyboard Mouse Pointer Click Drag Back Log in Select Undo erase
Spring 2	cs **Robots** I can talk about where I am moving a toy vehicle whilst I am moving it. I know how to follow simple direction instructions using forward, backwards, turn, left and right I can describe the route taken by a toy vehicle.	Unplugged work first to introduce simple directional instructions. Introduce 2go (thourgh minimash) Use the arrow keys to move the bee to a flower and talk about the movements using the key vocab. Children can try and take the bee to each flower using the arrows and change the colour of the route.	2go Beebots Coding safari	Instructions Forwards Backwards Left Right Turn arrow Route Flower

	I can program a 3-step route for a floor robot or online toy	On the ipads introduce the beebot app. Work up to level 3 where children need to use 3 instructions to move the bee. Programms like coding safari and daisy the dinosaur can then be used in provision where children move tiles to create the route		Bee
Summer 1	**Sounds** I know I can use the laptop and ipad to make sounds. I can make sounds on a laptop or ipads using 2beat, garage band or 2explore I can use a device to record myself speaking and play back the sounds. (mashcam)	2 explore Recap parts of laptops and ipads and key vocab. Introduce that we can make and record sounds and voices on ipads on laptops, ipads and other devices. Show and allow children how to create a sequence of sounds and record them in 2 explore. Show children how they can record voices on KITT and play back. This can also be done on mashcams.	Ipad use purple mash 2explore Laptop: 2 explore KITT robots	Sound Record Play
Summer 2	**IT Photography** I know what a photo is and that is a printed image not a drawing. I can take photos using a digital device eg KITT or an ipad. I know that I need to ask for consent to take a photo of a person.	Ensure children know what a photo is and what devices can take photos. *talk about taking photos of each other, people and friends and that you must always ask for permission. Can I take your photo please? Use IPads to take photos of set objects, view an image. Take images	Ipad camera Mashcams 2count	Photo Permission Click Delete Sort Count How many

	<u>Introduction to data</u> I know how to sort physical objects into 2 categories. I can sort physical objects, take a picture and discuss what I have done. Purple mash: 2 count Create a class pictogram (use the emotions images to ask the children how they are feeling today).	Recap sorting into categories. Children can use an ipad to take a photo of their sorting and talk about it. Create a class pictogram of emotions (or topic related images). Children should be able to answer simple questions eg how many smily faces have we. The children should eb able to tell you to click and drag images and how to save and exit etc..		Click Drag Mouse/ pointer/keyboard Save Log on and log out.