	Computing – Reception				
Early Learning Goals	Communication & Language Development • ELG1 - Listening & Understanding PDED • ELG3 - follow instructions with several ideas or actions • ELG3 - Set and work towards simple goals • ELG4 - Show resilience and perseverance in the face of challenge • ELG5 - play cooperatively, taking turns Physical Development • ELG7 - Use a range of small tools	Mathematics • ELG12 - Explore and represent patterns Literacy • ELG10 - Writing Understanding the World • ELG13 - Know some similarities and differences between things in Expressive Arts & Design • ELG16 - Safely use and explore a variety of materials, tools and te • ELG16 - Share their creations, explaining the process they have us • ELG17 - Being imaginative & expressive Knowledge and skills	chniques		
Digital Literacy	 Provide opportunities for children to explore a range of computer applications, e.g. drawing apps, age-appropriate games etc., Follow shortcuts, favourites or weblinks to explore simple websites Model using web pages to find things out 8 Play with imaginary technologies in role-play Get the children to use recording devices to say something about themselves or express their ideas Listen to stories, music, watch animations using digital devices Ask the children to choose a website appropriate for an activity Ask the children to match images to a sound Supervise the children choosing appropriate images for a specific purpose (e.g. images of trains) Provide opportunities for children to represent/express ideas & feelings using technology Use passwords to access devices 8 Talk about the images on a website and who they belong to Use play technology (e.g. toy mobile phones) to role-play speaking nicely to one another Ask the children what they know about themselves – e.g. names and where they live Tell and discuss stories with morals and stranger danger 	 Understand that the internet can be used to play and learn Know that the things they create digitally can be shared with others Recognise purposes for using technology at home and in school (e.g. TV for watching movies; interactive whiteboard for showing work in school) Can match images to appropriate sounds (e.g. 'duck' to 'quack') Understand that a password protects a device from someone else using it Understand that an adult should be present when they access online material Know who to go to for help if they need it when using the world wide web Understand to take turns when using technology Know that care is needed when using equipment iMake Music, iMake Media, iMake Videos, iMake Art, iCan Surf, iCan Report, iCatch Aliens!, iAm Logical, iStay Safe 	Creating Creating criteria; Make sin program Explorin online; o Create a diction sequent afte instruct Inte exactly; real; p		
Information Technology	 Provide opportunities for children to use a range of devices such as cameras, mobile devices, audio recording devices Model and enable the use of real and imaginary technologies, including online tools Enable children interact with computer systems using different inputs – e.g. by using a mouse, voice, speech or touch Ask the children to use a keyboard to copy or write a title or caption for work Discuss how technology is used at school and at home Encourage children to operate devices and equipment in school, sometimes with adult support Tour the school photographing the various ICT equipment Encourage children to speculate about why things happen or how things work Model how to and support the saving 	 Know that Information Technology (incl. online tools) can help them do things Can use a mouse to move objects Can use a keyboard for basic activities Can use a camera, sound recorder or mobile device to collect photographs and/or sound Recognises and can use the common icons for save and print iCan Play, iCan Move, iCan Direct, iCan Model, iCan Report 	iMake Mu iMake Vic iMake Vic iCan Play iCan Mov iCan Direc iFind Patt iAm Logic iOrganise iSearch O iCan Sequ iCan Prog		
Computer Science	 Ask the children to 'program' each other to find hidden objects (programming) Play Simon Says (algorithms/debugging) Ask the children to come up with a set of instructions (pictures of arrows) to navigate a partner around a simple obstacle course in PE (algorithms) Take a simple 'problem' and split it into smaller steps – E.g. to dress a teddy (computational thinking - decomposition) Record instructions for friends (programming) Listen to and follow recorded instructions Explore playing with programmable toys (e.g. Bee bots, remote controlled cars etc.) (programming) 	 Identify some of the steps needed to achieve a simple task – E.g. brushing teeth Understand that people and computers follow instructions Can follow instructions and correct mistakes Know that devices and objects on a screen can be controlled Recognise that a printer is connected to a computers and devices iFind Patterns, iCan Program, iCan Control, iCan Turn, iCan Animate, iCan Model, iMake Algorithms 	iStay Safe iMake Art iCan Cont		



e past and now

Outcomes

Creating simple musical compositions using digital tools Creating simple graphs; tracing paths with a mouse; sorting riteria;

Make simple searches; sequence simple instructions; programming a toy;

Exploring and explaining simple rules for keeping safe online; composing and sending simple emails;

Create algorithms; Combine images with text;

Vocabulary

music; sound; audio; record; play; compose; volume, dictionary; picture; alphabet; letters; search, order; steps, sequence; instructions; algorithm; first; next; then; before;

after; second; last, program; code; command; input; instruction; forward; backward; turn; go; clear; execute,

Internet; online; website; safe, command; program; exactly; measure, image; camera; animation; stop; motion, real; pretend; imaginary; model, instruction; command; right: left: nause: clear: deh

Media - ELG16, ELG17iCan Turn ELG1; ELG2Videos - ELG16, ELG17iCan Animate ELG1; ELG2; ELG17ay ELG1, ELG7, ELG5iTell Stories ELG1; ELG2; ELG17ove ELG1; ELG7; ELG5iSend Email ELG9; ELG10rect ELG1; ELG7; ELG5iCan Model ELG1atterns ELG1; ELG12iMake Pictograms ELG1gical ELG1; ELG11iCan Report ELG16; ELG17o Online ELG1; ELG11iCatch Aliens! ELG16equence ELG1; ELG11iMake Algorithms ELG1; ELG2;ogram ELG1; ELG14iGuess Beasts ELG7; ELG11;Art ELG16iELG14	program; right; left; pause; clear; debug					
Media - ELG16, ELG17iCan Turn ELG1; ELG2Videos - ELG16, ELG17iCan Animate ELG1; ELG2; ELG17ay ELG1, ELG7, ELG5iCan Animate ELG1; ELG2; ELG17ove ELG1; ELG7; ELG5iSend Email ELG9; ELG10rect ELG1; ELG7; ELG5iCan Model ELG1atterns ELG1; ELG12iMake Pictograms ELG1gical ELG1; ELG11iCan Report ELG16; ELG17o Online ELG1; ELG11iCatch Aliens! ELG16equence ELG1; ELG7ELG9afe ELG1; ELG4iGuess Beasts ELG7; ELG11;Art ELG16ELG14involution ELG1; ELG11iMake Pixel Art ELG7; ELG11;	Early Learning	g Goal links				
	Music – ELG16, ELG17 Media - ELG16, ELG17 Videos - ELG16, ELG17 ay ELG1, ELG7, ELG5 love ELG1; ELG7; ELG5 rect ELG1 ; ELG7; ELG5 atterns ELG1; ELG12 gical ELG1; ELG11 to Online ELG1; ELG11 to Online ELG1; ELG11 rogram ELG1; ELG7 afe ELG1; ELG4 Art ELG16 Dontrol ELG1; ELG11	iCan Turn ELG1; ELG2 iCan Animate ELG1; ELG2; ELG17 iTell Stories ELG1; ELG2; ELG17 iSend Email ELG9; ELG10 iCan Model ELG1 iMake Pictograms ELG1 iCan Surf ELG16 iCan Report ELG16; ELG17 iCatch Aliens! ELG16 iMake Algorithms ELG1; ELG2; ELG9 iGuess Beasts ELG7; ELG11; ELG14 iMake Pixel Art ELG7; ELG11;				

 Use simple software applications to make something happen (e.g. Bee Bot iPad app) 	
• Draw or give simple instructions to a partner to build a simple structure using building blocks	
(programming)	
• Look at a set of drawn instructions (e.g. arrows) and predict what will happen if they were	
entered into a programmable toy (predicting algorithms)	
Encourage the children to understand that operations can be predicted and have a cause and	
effect (e.g. press a button turns on/off)	
• Encourage the children to develop an understanding that an operation has a predictable result	
(e.g. clicking a mouse selects an object) (predicting algorithms)	
 Ask the children to sequence a series of photographs to recount a story (algorithms) 	
 Invite the children to point out simple errors in images or texts (debugging) 	
• If you have them, show the children the cables that connect computers to the school network	
(networks)	

