At Shirley Infant School we strive to build a community of pupils who are competent, confident users of ICT and are knowledgeable about emerging technologies. Children become aware of their responsibility when using technology as well as exploring the risks through fictional stories. As a result, they are given the tools they need to develop their resilience and know what to do to keep themselves safe. We understand the need to equip all learners with the experiences and skills of ICT to prepare them for a rapidly changing technological world. Children will have gained key knowledge and skills in the three main areas of the computing curriculum: computer science (programming and understanding how digital systems work), information technology (using computer systems to store, retrieve and send information) and digital literacy (evaluating digital content and using technology safely and respectfully).

Skills	R	1	2
Programming	Use a variety of electronic toys in play situations using basic directional language. Explore toys that simulate control devices e.g. scanner, microwave, cash tills. I can program a simple floor robot to carry out a short sequence of steps	I can move a programmable toy in different directions by giving and following instructions. I can combine commands to follow a route. I can explore outcomes when instructions are given in different orders. I can explain what an algorithm is. I can describe and write algorithms to complete specific tasks.	I can plan out and enter a sequence of commands to carry out specific tasks. I can reorder a sequence of instructions and correct errors in programs (debug) I can explain what a program is. I can predict the outcome of a program.
Communication	Develop mouse control. Use a paint program to make marks, using simple tools, to communicate their ideas. Use different forms of electronic communication in free play. Begin to use a keyboard to produce text on screen, developing familiarity with letters, numbers, backspace, arrow keys and space bar.	I can use letters, basic punctuation, spacebar and enter key to type words and sentences quickly. I can use the backspace to make corrections. I can use the shift key for punctuation. I can save my work.	I can edit and improve my work by changing, adding or removing words. I can change the font size, colour and style to change my work.
Multimedia	I can use multimedia equipment (e.g. digital camera, video camera) to capture still and moving images. Explore ways of making and listening to sounds using simple programs and devices.	I can paint with different colours using undo or eraser to correct mistakes I can use different tools such as brush, pen, line, shape and fill, I can use a digital still camera to take a picture I understand the need to frame the image and keep the camera still. I can record an audio recording I can play back an audio recording	I can discuss the quality of my images and make decisions (e.g. delete a blurred image) I can use a photograph within a document. I can capture video. I understand the need to frame the image and move the camera carefully, I can play back a video recording.
Digital Literacy & Research	With support, use appropriate websites or CD ROMs to locate small amounts of information/images	I can explore a website using buttons, menus and hyperlinks I can use the 'back' button I can read words, look at pictures and watch videos on a website to find information	I can find out facts by navigating websites I know each website has a unique address I can navigate a website via favourites and typing in address I know not all information found on the internet will be accurate or useful I can use a search engine to find facts using key word search

			I know I need to follow rules to keep safe online I know what private information is and that I shouldn't share it online. I am aware that bullying can happen online as well as offline.	I know what to do if I find something inappropriate online & where to go for help. I know how to stay safe by going to appropriate websites. I know that the messages or images I put online leaves a trail. I know how to behave safely and respectfully online.
Skills vocabulary	Left Right Forward Back Mouse Keyboard Letters Numbers	Camera Moving image Still image	Algorithm Instructions Sequence Program Input Code Tools Retrieve Save Caption — Image Capture Frame Play Record Spacebar Backspace Insert Enter key	Algorithm Instructions Precise Debug Program Research Reliable sources Tabs Website — Capture Upload Quality image Insert Recording Playback Edit Improve