

Roe Green Infant School

Computing - Skills Progression



	Reception	Year 1	Year 2	LKS2	UKS2
E-Safety	Understands that you can find information from the internet. Understands that we should only access 'safe sites'.	Knows about the internet and beginning to understand some key age appropriate safety 'rules.'	 Can talk about key online safety rules Understand where to go for help when they have concerns on the internet or other online technologies 	Use technology safely and respectfully, keeping personal information private and understand that communication online maybe seen by others Use technology safely and recognise acceptable and unacceptable behaviour Know where to go for help when they have concerns on the internet or other online technologies	 Understand the need to only select age appropriate content Can demonstrate 'web savvy' awareness from a range of given scenarios Can discuss a range of E-Safety and E-Security (privacy) issues. Knows a range of ways to report concerns or inappropriate behaviour.
Using Computers	 Naming parts of a computer Complete a simple program on a computer. Uses ICT hardware to interact with ageappropriate computer software. 	Use technology to purposely create digital content	 Recognise common uses of technology beyond school Use technology to purposely create, organise, store, manipulate and retrieve digital content 	 Recognise different forms of input and output devices and how they are used Can use some software to create / assemble digital content for clear purpose. It could be for text, images, animation, sound etc. With support select, use and combine a variety of software on digital devices to design and create. 	 Independently select, use appropriate software for a task and combine a variety of software to collect, analyse, evaluate, present data and information Use and combine a variety of software to design and create content for an audience such at DT, art or music projects
Understanding Technology (Individual)	 Explores a range of devices in everyday life. Shows an interest in technological toys and equipment. Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images. Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes. (ELG) 	Show an awareness of the range of devices in everyday life.	Show an awareness of the range of inputs to a computer (IWB, mouse, keyboard, microphone, touchscreen etc.)	Have an awareness in the use of computing devices and explain why their choice was made Make choices about devices and tools they use for specific purposes Begin to show awareness of specific tools used in in everyday life	 Use devices and tools they use for specific purposes Evaluate the tools available to them including unfamiliar ones Demonstrate awareness of outcomes depending on choices regarding tools and devices.
Understanding Technology (The internet)	Knows that information can be retrieved from computers.	 Recognise common uses of information technology in the home and school environment. Show awareness that what is created on a digital device can be shown on another device (tablets, laptops, desktops, printer, projector) 	 Begin to understand internet services and WWW. Use websites and manage journey around them (using back and forward buttons). 	 Show awareness that not all the resources that are used are not on the device they are using. Begin to show an understanding of URL'S show awareness of the need of accuracy in spelling to search effectively. 	 Perform searches on different search engines and check the results against each other Use filters in search technologies effectively Can check the results of web searches i.e. how useful, relevant, reasonable, valid accurate and appreciate how search results are selected and ranked
Electronic Communication			Children begin to work together to request or share information from their class via email.	Show understanding that their username and passwords (my USO) is key to accessing personal resources e.g. my documents emails, online banking, personal files.	Share ICT work via email. Where possible respond to emails received within the school's network. Abide by the schools rules for e-safety

Handling Information	Begin to use a simple pictogram programme to show graphics. (whole class)	Begin to use a simple pictogram programme to show graphics.	 Can use a programme to answer questions and create content for a clear purpose (block chart, bar chart, pie chart, line graph) Can save, retrieve and edit their work. 	 Can create and store some data and then find answers to straight forward questions. Can use a data file to find answers to questions by using data logging or a survey or a prepared database or a simple spreadsheets. 	 Can collect, analyse and draw conclusions from data, such as through a survey, database or spreadsheets. Independently solve a problem by planning and carrying out data collection Organising and analysing data by using complex searches using a database and by drawing
Digital Images	Uses simple paint packages on a smartboard.	Begin to use simple tools in a paint package	 Make straight forward edits of their digital work (text, image) using simple editing tools to both correct or improve it. 	 Manipulate digital images using a range of tools in the appropriate software. Make a short animation from images (still or moving) that they have sourced or created. 	 Can combine resources from different sources into a digital presentation. Use images that they have sourced, captured, manipulated as part of a bigger project. Use these in a digital presentation, evaluate it and show clearly intended purpose and audience
Research		Begin to show awareness of different information Whole class, explore information from different sources	 Children to use simple search engines to find information and images. Children can save, edit and retrieve their work 	 Children to answer their own questions using different search engines. Use information or resources they have found. Can talk freely about information and resources found. Begin to understand that all information found is not always accurate. Continually to be aware of staying safe on the internet in school and at home. Accept the school's Internet Safety policy. 	 Use copy and paste and start to understand the purpose of copyright. Understand that results are selected and ranked by search engines. Independently use a variety of search engines to find a range of information on a specific topic. Be able to check and validate information for accuracy.
Control (Algorithms)	Programming a beebot to move from 'A' to 'B'	 Predict the behaviour of simple programmes. Understand what algorithms are. Control everyday devices to see different outcomes. 	 Use logical reasoning to predict simple behaviours Control a device on and off the screen. create and debug simple programmes Understand that programs execute by following precise instructions 	 Children can type a short set of instructions to programme a device on or off screen and be able to predict, test and modify. Use logical reasoning to explain how simple algorithms work by detecting and correcting errors in algorithms. 	 Design, input and test a complex set of instructions to a programme or device. Design, write and test simple programmes where a particular result will happen based on actions. Use logical reasoning to explain how increasingly complex algorithms work Independently create sequences of commands to devices. Solve problems by decomposing them into smaller parts. Detect errors, evaluate and modify programmes.