

Curriculum Organisation

By the end of Foundation 2, children should recognise that a range of technology is used in places such as homes and schools. They should be able to select and use technology for particular purposes and use hardware to interact with age-appropriate computer software.

KS1 and KS2 will have subject specific lessons on ICT Skills and Computer Science as follows:

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	Programming On the move Learn that programs execute by following clear instructions. Understand that programs respond to inputs to do different things.	Programming Simple inputs Learn to combine start and input events to create more advanced apps and programs using precise instructions.	Programming Simple inputs Learn to combine start and input events to create more advanced apps and programs using precise instructions.	IT - Word Processing	IT - Word Processing	IT - Word Processing
Finding Things Out I understand that information comes from a variety of sources I understand that computers use icons to provide information and instructions I can talk about websites I have been on.				I can write a sentence (with support) I can use two fingers to enter text I can use the space bar I can use the backspace delete key I can use the shift key to put in a capital letter I can use the enter key I understand word wrap (that text will automatically move onto the next line)		
2	IT - Word Processing	IT - Word Processing	IT - Word Processing	Programming Refresher (level 1) An overview or recap of the main concepts covered so far.	Programming Different sorts of inputs Learn that programs respond to different sorts of inputs, and that the keyboard can be used to control objects on screen, not just by clicking them directly.	Programming Buttons and instructions Learn that one object can be used to control another object, e.g. writing code so clicking a button gives an instruction to make a lorry move.
Finding Things Out I can begin to explore a website by clicking on the arrows, menus and hyperlinks. I understand that there are different	I can enter short pieces of text and correct mistakes I can develop basic editing skills eg shift key for upper case, question marks, spaces after punctuation I can choose to use enter or word wrap depending on their type of writing I can save, print and retrieve with help I can use the mouse or arrow keys to insert words or sentences					

types of questions which can be answered in different ways						
3	Programming Refresher (level 1-2) An overview or recap of the main concepts covered so far.	Programming Sequence and animation Learn to make things happen in a sequence, creating simple animations and simulations.	Programming Conditional events (selection) Learn to code with 'if statements', which select different pieces of code to execute depending on what happens to other objects.	IT - Word Processing & Presentations	IT - Word Processing & Presentations	IT - Word Processing & Presentations
Finding Things Out				I can develop further basic drafting skills I can insert words or sentences I can align text left, right and centre. I can change font, font size, style and colour. I can copy and paste a picture into a document. I can combine text and clip art. I can save and retrieve work. I can choose and then integrate elements (text, picture, graph) into a PowerPoint presentation. I can create a title slide and choose a style.		
I can type in a URL to find a website. I can use a search engine to find a range of media, e.g. images, texts. I am beginning to think of search terms to use linked with questions I wish to answer. I can understand they the internet contains fact, fiction and opinions and begin to distinguish between them.						
4	IT - Word Processing & Presentations	IT - Word Processing & Presentations	IT - Word Processing & Presentations	Programming Refresher (level 1-3) An overview or recap of the main concepts covered so far.	Programming Introduction to variables Learn how computers use variables to count things and keep track of what is going on, then create simple games which use a score variable.	Programming Repetition and loops Learn how computers use repetition and loops to do things over and over again (and again!).
Finding Things Out I can purposefully navigate an internet page I can type in a URL to find a website.	I can delete, insert and replace text I can improve presentation of a document by laying it out effectively I can use cut and paste within applications to re-order text I can combine text and graphics by pasting pictures into work I can use a spellchecker I can create a storyboard to prepare a presentation I can create a presentation for a specific audience					

I can use a search engine to find a range of media, e.g. images, texts. I can think of search terms to use linked with questions I wish to answer. I can use the internet as a resource to support my work, and begin to understand plagiarism I can understand they the internet contains fact, fiction and opinions and begin to distinguish between them.	I can choose and then integrate elements (text, picture, sound, backgrounds) into a PowerPoint presentation. I can decide upon and use effective transitions.					
5	Programming Refresher (level 1-4) An overview or recap of the main concepts covered so far.	Programming Speed, direction and coordinates Learn how computers use numbers to represent things such as how fast things are moving, and where they are.	Programming Random numbers and simulations Learn how computers can generate random numbers and how these can be used in simulations.	IT - Word Processing, Presentations & Data	IT - Word Processing, Presentations & Data	IT - Word Processing, Presentations & Data
Finding Things Out I can make more complex searches on the internet e.g. use advance search functions in Google (quotations) I understand that websites such as Wikipedia are made by users (linked to E-Safety) I understand I need to use strategies to check the reliability				I can format text appropriately for its purpose I can use Word Art I can cut and paste between applications e.g. to copy a picture from the Internet I can work independently to create a multi slide presentation that includes speaker notes. I can use transition and animation to improve the quality of the presentation. I can include sounds and moving graphics in the slide. I can present to a large group or class using the notes made. I can choose information to put into a data table I can design a questionnaire to collect information I can make graphs from the calculations on my spreadsheet		

of information (cross check with another source such as a book) I can skim read and sift information I understand that good online research involves processing the information (rather than copying) and interpreting it for others I recognise issues of copyright and the importance of acknowledging sources						
6	IT - Word Processing, Presentations & Data	IT - Word Processing, Presentations & Data	IT - Word Processing, Presentations & Data	Programming Refresher (level 1-5) An overview or recap of the main concepts covered so far.	Programming More complex variables Learn to use variables in more complex ways, and to manipulate inputs to create useful outputs.	Programming Object properties Learn more about how computers use property values and parameters to store information about objects.
Finding Things Out I understand the importance of choosing key words to find information when using a search engine I can make more complex searches on the internet e.g. use advance search functions in Google (quotations) I understand that websites such as Wikipedia are made	I can use various display features to communicate to an audience and presenting work effectively I can cut and paste between applications I can use Word Art I can work independently to create a multi slide presentation that includes speaker notes. I can use transition and animation to improve the quality of the presentation. I can include sounds and moving graphics in the slide. I can present to a large group or class using the notes made. I know which formulas to use when I want to change my spreadsheet model I can make graphs from the calculations on my spreadsheet I can sort and filter information I understand that changing the numerical data effects a calculation					

by users (linked to E-Safety) I understand I need to use strategies to check the reliability of information (cross check with another source such as a book) I recognise that not all information on the internet is accurate or unbiased (advertising) and develop a range of strategies for identifying the origin of a website. I understand the issues of plagiarism, copyright and data protection in relation to my work. I recognise issues of copyright and the importance of acknowledging sources				
--	--	--	--	--

Lessons should be taught once every two weeks.

The software to be used is as follows: Word Processing – MS Word, Presentation – MS Power Point, Data – MS Excel, Programming – Espresso Coding.