



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer Science	What an algorithm is? What is a bug? What is debugging?	Explore features of Scratch jnr. What is a program?	Explore features of Scratch online. What is a variable?	What is a script?		What is a Microbit? What is Javascript?
Word Processing	EYFS* (Know that some devices have touch screen functionality and some do not & Control devices e.g. using buttons, keys, a mouse, a touch pad.) <ul style="list-style-type: none"> Can identify different devices and their names (Tablet, Laptop) Know differences between touch keyboards and hardware keyboards. Understand the term 'qwerty'. Able to identify the correct names of the key rows (home row). 	<ul style="list-style-type: none"> Identify purposes of making your font bold, italic or underlined. Understand the word font instead of handwriting or style. Understand the word image instead of picture. 	<ul style="list-style-type: none"> Understand that 'spellcheck' can be used the same as a dictionary. Know how an incorrect spelling is shown. Understand the term 'align'. Identify the locations of different / commonly used symbols on a Qwerty keyboard. 	<ul style="list-style-type: none"> Understand the effect slide themes can have on a presentation. Use and understand the term 'enhance'. 	<ul style="list-style-type: none"> Understand how dictation can be used to write sentences within a document. Know what a 'hyperlink' is. 	<ul style="list-style-type: none"> Understand the full use of the 'ctrl' button and how these shortcuts save time. Understand that data will be automatically updated within a spreadsheet.
Multi-Media	Replicating artistic styles. Understanding the similarities to real tools and online tools. Understanding the difference between original photos and representations.	Exploring different E-Books. What is an E-Book?	What is a PowerPoint presentation? What is PowerPoint used for? What is a hyperlink? What is a transition?	Understanding suitable E-Books Exploring Book Creator	Understanding how animation works. What is 'Stop-motion'? Understanding 'Green screening'.	Exploring Garageband. How to make digital music. What equipment is used?
Productivity	Understand that data can be shown in different ways.	Understand data can be collected using different technology. What is a branching database?	Understand how data can be organised.	Understand the layout of spreadsheets.	What are formulas?	How to use formulas in 'real-life' situations.
Collaboration and communication	Discuss what messages are. Understand different ways to send a message. Recognise an email. Understand passwords are private. Know that online communication is not always	Understand the different ways to send a message. To create an email address. Know that passwords should be secret and kept safe.	Know how to respond to unpleasant communications. Know how to respond when asked for personal details. Know how to keep personal information safe. Understand when an email should not be opened.	Identify emails that may be malicious or inappropriate to open. Identify attachments that maybe unsafe to open. Know that personal information may be seen by others.	Understand what Wikis are. Understand the severity of impact on an individual of sending / uploading unkind or inappropriate content. Know that you should not publish other people's pictures or tag them without permission.	Understand a range of communications via networks - (Email / video conferencing, blogs, vlogs, forums and social networking.)



	<p>confidential and can be monitored. Respect others work on a shared drive.</p>		<p>Understand to not delete upsetting messages. Know the difference between an open site and safe site when publishing.</p>	<p>Know the risks and rewards with publishing online. Understand the effects that writing and images may have on others. Know that permission is needed before using someone's content.</p>		<p>Understand collaboration such as wikis - including Wikipedia.</p>
<p>Networks and Internet Safety</p>	<p>Discuss different website features that can be seen. Learn online is not the same as real life. Know not to use the internet without the help of a trusted adult. Identify a range of digital objects.</p>	<p>Discuss different website features, purpose and compare them. Understand that you can be diverted via pop-ups, links and advertising. Understand advertising and embedded adverts. Understand the term 'spoof' website. Know that information can be viewed by anyone unless on a secured area. Understand which digital objects are used day to day. Know that smart systems can be used to track locations and leisure activities.</p>	<p>Understand a computer network. Know that the internet is a type of CN. Understand that taking text from a website is stealing someone else's work. Know that the internet contains facts and opinions.</p>	<p>Develop a knowledge of computer networks. Understand wireless and wired networks. LAN / WAN Understand the terms copyright and plagiarism. Know to be aware that websites are not always accurate and information should be evaluated and checked.</p>	<p>Understand the use of routers, servers and meaning of terms such as 'gateways', 'hubs' and 'switches'. Know that networks connects can be established through radio or satellite signals, copper wires or fibre-optic cables. Understand that malicious adults use the internet to make contact and 'groom' 'young children' and how to report it.</p>	<p>Understand in further depth computer networks and the internet. Understand Binary code. Know terms like 'protocol' and 'IP'. Understand the pitfalls of your site being linked from a friend's.</p>