

Computing Curriculum

Reception	Using mouse and simple programs on computers – Paint, Games, 2Simple.	Basic IPad uses - Camera, video, access apps	Beebots – Simple inputs, Orally planning routes	Everyday Technology - Explore a range of everyday technology such as CD players. Explore means of recording voices such as sound buttons.	Interactive Whiteboard - Clicking links Dragging and dropping Interacting with age-appropriate software.	Online Safety – Ensuring trusted adults supervise their use of tablets/ technology. Know what to do and who to tell if they see anything they do not like.
Year 1	Beebots – Inputting a series of instructions (basic algorithms) Planning a route before inputting Practise giving clear instructions practically before applying to Beebots. Apply knowledge in j2Code to move wolf/rocket.	Paint/ j2Code JIT - Select and make marks using pen/ brush tools Change the colour/ weight of the brush Explore other functions such as creating and filling shapes and the eraser tool. Insert text – using spacebar and backspace correctly.	Websites – Look at websites together and discuss what is seen. Discuss how arrow changes on a link or a hot spot and be able to click on links on a website. To be able to use the back button.	Online Safety – Ensure that they have adult permission when online and that they tell adults if they are concerned. Understand that passwords must be private.	Digital Technology – – Identify a range of digital objects used in day-to-day life. Interact with iPads, cameras in order to record and capture experiences.	Animation – Use j2Code to create own animations by making slight changes in each frame.

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Year 2	<p>Beebots – Put together 2 or more instructions in one input.</p> <p>Avoid obstacles.</p> <p>Write and debug instructions so that they can be followed by others.</p> <p>Look at a set of instructions and decide where they Beebot will go.</p> <p>Draw shapes using Beebots.</p> <p><i>Beebot App</i></p> <p><i>Apply simple instructions on j2Code.</i></p>	<p>Multimedia - Recognise that pictures can be taken on cameras and iPads and know how to view and delete them if necessary.</p> <p>Use ICanAnimate to create moving picture animations.</p>	<p>Textease/ Word – To be able to write in full sentences using spacebar for finger spaces and caps lock for capital letters.</p> <p>Know how to add a full stop.</p> <p>To be able to use backspace to correct mistakes.</p> <p>To be able to return key to move onto next line.</p> <p>Able to highlight text to change style and font size.</p> <p>To be able to save work and retrieve previous work.</p> <p>Begin to copy and paste pictures.</p>	<p>Websites – To look at websites and discuss what can be seen.</p> <p>Click on links on a website.</p> <p>Use the back button on a website.</p> <p>Find information on a website.</p> <p>Print a page from a website to be used as a resource.</p>	<p>Online Safety – Know that you can accidentally be diverted from a website through a link, advertisement or pop-up.</p> <p>Be able to respond to this by using back button or closing the window.</p> <p>Understand that some information online may be untrue.</p> <p>Keep their password secret.</p> <p>Know that the internet can be viewed by anybody – Discuss how to keep their information safe and private.</p>	<p>Databases – Children to collect information and enter it into a template to produce a chart/ graph.</p> <p>j2code JIT</p>
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Year 3	<p>Coding –</p> <p>J2Code Logo –</p> <p>Children to draw required shapes using arrows before extending to writing the code for themselves.</p> <p>Explore a range of simple coding apps on iPads.</p>	<p>Word –</p> <p>Insert/ delete a word using arrow keys or mouse to reach desired location.</p> <p>Highlight text and change its format using icons.</p> <p>To be able to use shift key to type characters such as question marks, exclamation marks and capital letters.</p> <p>Save work independently using appropriate title.</p> <p>To position a text box.</p> <p>Position text using align options.</p> <p>Copy and paste a picture into text and resize it.</p> <p>Use spell checker.</p>	<p>Multimedia –</p> <p>Use PowerPoint to create a simple presentation that contains a title page, text and images.</p> <p>Look at pre-made PowerPoints and discuss what can be improved.</p> <p>To view the slideshow using mouse to click between slides.</p> <p>Use images captured from a camera within PowerPoint.</p>	<p>Websites –</p> <p>Click links within a website.</p> <p>Print a webpage to use as a resource.</p> <p>Conduct a search on Google, refining it to get more accurate results.</p> <p>Understand the internet contains fact, fiction and opinion and begin to distinguish between these. (Tomato Spider Spoof Website)</p>	<p>Networks –</p> <p>Relate to everyday network such as a road or rail network – Each road/ track connects a different place.</p> <p>Understand that a computer network is a group of computers connected together. I know that the internet is a type of network.</p> <p>I can access the pupil drive.</p>	<p>Online Safety –</p> <p>Know how to respond to unpleasant communications via text, email, chatrooms etc. by showing a trusted adult.</p> <p>Know what information is personal and should be kept private.</p> <p>ThinkUKnow CyberCafe Lessons</p> <p>CBBC Safesurfing guide.</p>
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Year 4	<p>Coding – Use j2Code – Children to complete the series of lessons.</p> <p>Children to apply skills to create their own sprite and movements in 'Visual'.</p> <p>Children to create their own simple animations and games using iPad-based apps.</p>	<p>Word – Format text according to the purpose and target audience.</p> <p>Highlight text to copy and paste. Use control c/v to copy and paste from a range of sources.</p> <p>Create a text box and position it in a suitable place.</p> <p>To amend text using the find and replace tool. Use spell checker.</p> <p>Change layout of page from portrait to landscape.</p> <p>Use bullets and numbering.</p> <p>Use word count.</p> <p>Save document and use control and S to save any updates whilst working on a task.</p>	<p>Multimedia – Create a PowerPoint that is fit for purpose and includes text and images.</p> <p>To be able to put some animation into the slideshow.</p> <p>Capture own sounds, videos and photos to include in presentations.</p>	<p>Websites - Conduct a search on Google and refine where necessary.</p> <p>Search for the most suitable and reliable website.</p> <p>Copy and paste extracts of text ready for editing.</p>	<p>Excel – Design a simple questionnaire to record numbers.</p> <p>Enter data into a simple database.</p> <p>Know that different graphs are used for different purposes.</p> <p>Begin to create simple graphs/ charts which can be copy and pasted into other documents.</p> <p>Use and understand the terms cell, rows and columns.</p>	<p>Online Safety – Use sensitive and appropriate language when using email, video chatting and instant messenger.</p> <p>Understand that if they make personal information available online it may be seen and used by others.</p> <p>Understand some of the risks and rewards involved with publishing online.</p>
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Year 5	<p>Scratch –</p> <p>Complete Early Code Club Projects/ Hour of Code on code.org Introduce children to Scratch and how to produce a simple moving picture.</p> <p>To create a simple series of instructions to enable sprite to move.</p>	<p>Graphics –</p> <p>To be able to save an image document using the ‘save as’ command.</p> <p>Experiment with the different photo editing options is a range of publications.</p> <p>To be able to add special effects to a graphic. E.g. Creating a shadow on WordArt.</p> <p>Choose most appropriate graphics for different purposes.</p>	<p>Excel –</p> <p>To be able to enter labels and numbers in a spreadsheet.</p> <p>To create charts and graphs using the information in a spreadsheet.</p> <p>To be able to copy cells.</p> <p>Introduce children to the ‘SUM’ function.</p>	<p>Multimedia –</p> <p>To confidently use ICT such as cameras and iPads to record sounds, take photos and record videos. Save these for later use.</p> <p>To create multimedia presentations which include sound, animation, slide transitions, buttons and links to other pages.</p> <p>Choose appropriate designs to fit the purpose/ target audience.</p>	<p>Word –</p> <p>Change the page layout (landscape/ portrait) to fit the purpose.</p> <p>Formatting text to suit the purpose – resizing, changing font, bold/ underline.</p> <p>Using bullets and numbering.</p> <p>Using indentations to suit the purpose of the text. E.g. ‘hanging indent’ for a play script.</p> <p>To be able to incorporate graphics and use the most appropriate text wrapping options.</p>	<p>Online Research –</p> <p>Search sensibly for images and information online.</p> <ul style="list-style-type: none"> - Use a range of sources to check validity and recognise different viewpoints. - Understand that websites such as Wiki are multi-author websites which have not always been verified. <p>Online Safety –</p> <p>Recognise the effect that their writing or images may have on others.</p> <p>Know that they need to have appropriate permission for use of images of friends before posting online.</p>
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Year 6	<p>Scratch – Complete Code Club Projects</p> <p>Controlling a number of sprites More complex procedures to control multiple sprites simultaneously (moving or conversing with one another) Using ‘if...then...’ and ‘repeat forever’ functions. Checking procedures for errors and editing accordingly.</p> <p>Move on from block coding to HTML/ Python.</p>	<p>Graphics – PowerPoint, Word, Publisher. Exploring different tools to edit and change graphics.</p> <p>Multimedia – Multimedia presentations which contain sound, animation, transitions and buttons.</p> <p>PowerPoint Movie Maker</p>	<p>Excel – Inputting data, using basic functions such as ‘SUM’, creating charts and graphs. Altering data to answer ‘what if’ questions.</p> <p>Budgeting/ Enterprise project</p>	<p>Online Safety – Understand impact on an individual of sending or uploading unkind or inappropriate content.</p> <p>Understand the need for privacy settings.</p> <p>Understand that you should not publish other people’s pictures or tag them on the internet without their permission.</p> <p>Online grooming and how to report any suspicions.</p>	<p>Word- Become confident in using variety of functions, including options such as spell checker, find and replace, aligning text and changing the page layout</p>	<p>How does the internet work?</p> <p>Demonstrate giving practical examples.</p> <p>Allow children to trace how information is received.</p> <p>Understand wireless and wired networks. LAN and WAN networks.</p> <p>Understand the use of some routers and servers and the meaning of terms such as ‘gateways’, ‘hubs’ and ‘switches’.</p>
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