

St Martin's C of E Primary School Computing Curriculum 2022 - 2023

Links to RSHE

EYFS

At St Martin's our EYFS is made up of nursery and reception classes, where the EYFS curriculum is used to feed in and support the national curriculum. Computing is taught within the nursery setting where they focus on the key areas of staying safe online, **using the camera to take photos and opening up apps on the iPads.** When children move into reception, these skills are revisited but there is more focus on teaching points that link to the whole school progression. Although children are taught these skills at specific points in the year, it may be the case that during learning through play, children will be using these skills across a range of areas.

Reception - Computer Science

		Share	App
Programming	Specific programming is taught towards the end of the year using BeeBots. However, the concept of following oral instructions, spotting patterns and sequencing items is something that is developed from the start of nursery. In the summer term, the children will then be able to use a simple sequence of commands to control a digital device.	https://drive.google.com/drive/folders/13Fw8B4hF_iJ_y0L71Exu_BpJap2PqYRA?usp=sharing	BeeBots
Key Vocabulary	Instruction, follow, first, next, Mouse, touch screen, move, command, device		

Reception - Information Technology

		Share	App
Video Creation	What is the difference between a photograph and a video? How do I record and then re-watch my recording?	https://drive.google.com/drive/folders/1HI25NSklwmESadzgE_bAqbQmv52BJtcS?usp=sharing	Camera App
Animation -	How can I make my image speak?		PuppetPals Chatterpix
Data Handling -	What is a chart? How can I use technology to take a picture of the objects to explain how I have sorted them?		Camera App
Word Processing	How can computers/keyboards/a mouse be used in role play? How do I type letters on a touch screen device? How can I record my voice saying simple sentences?		Pages
Key Vocabulary	Computer, Keyboard, Device, Tablet, Dictate, Type		

Reception - Digital Literacy -

Self-Image and Identity	Online Relationships	Online Reputation	Online Bullying	Managing Online Information	Health, Well-being and Lifestyle	Privacy and Security	Copyright and Ownership
DL - What would I do if someone made me do something that	DL - How can we use the internet to	DL - How can we put information online?	DL - How might people be unkind	DL - What could I use to find things out?	DL - What rules will keep me safe and	DL - What is personal information? Who can I share this with?	DL - Does the work I create belong to me?

makes me feel sad, embarrassed or upset? When might they do this?	communicate with people I know?		online and how will it make them feel? DL - Keeping Safe Online - Scarf		healthy when I use technology at home?		
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Year 1 - Computer Science							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Programming - Animations	How can coding support me to create a simple animation?				https://drive.google.com/drive/folders/1Sp95P0dvpgVGoj9FgsF3hniNF11YAL2-?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_1_programming_-_animations_in_scratchir.pdf	Scratch Jnr All devices
Programming - Simple Algorithms with Daisy Dino	How can a simple algorithm help me to move a character?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_1_programming_daisy_the_dino_2_.pdf	Daisy the Dinosaur App iPads
Key Vocabulary	Algorithm, sequence, order, bug, fix, precise, Digital program, follow, code, bugs, fix, order, Scratch Jnr						

Year 1 - Information Technology							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Technology around us	How can technology help us?					https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-technology-around-us	Raspberry Pi/Chromebooks
Animation - Creating a Cartoon	How can I use technology to animate a character?				https://drive.google.com/drive/folders/1Xp8hsbTOSisQ8HWNV09TDB_NGc-GM1WW?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_1_animation_-_chatterpix.pdf	Chatterpix Kids iPad
Data Handling - Pictograms	How can I use technology to present my results?				https://drive.google.com/drive/folders/1UdXGdrTUX_mBMtGoKBCyvbmqZe6bWQJx?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_1_data_-_pictogram_diagram.pdf	Pic Collage iPad
Digital Writing - Word Processing	How can I use a computer to show my writing?					https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-writing	Pages/ Google docs
Key Vocabulary	Space bar, delete, return key, enter, mouse, trackpad, arrow keys, cursor, select						

Year 1 - Digital Literacy							
<i>Self-Image and Identity</i>	<i>Online Relationships</i>	<i>Online Reputation</i>	<i>Online Bullying</i>	<i>Managing Online Information</i>	<i>Health, Well-being and Lifestyle</i>	<i>Privacy and Security</i>	<i>Copyright and Ownership</i>
DL - How can people make me feel online? DL - How do I ask adults for help when I am worried about something online? DL - Who can help? (1) - Scarf	DL - How can adults help us to contact people online? DL - Why do we need to be kind online?	DL - What happens to my online information? DL - What should I put online?	DL - How should I behave online?	DL - How can I use the internet to find things out? DL - What if I find something that makes me feel sad, uncomfortable, worried or frightened?	DL - What rules do I need to keep safe when using technology in the home and beyond?	DL - What is my more detailed personal information and what should I share? DL - How does a password protect us? DL - Sharing Pictures - Scarf	DL - If I create it using technology, is it mine? Why do we save our work?

Year 2 - Computer Science							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Programming - Knock Knock Joke	How can coding help me to create an interactive joke?				https://drive.google.com/drive/folders/1cFeact_dWjxhSCOyFjUFR8p-B4nDSKCF?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/ks1_knock_knock_joke_scratchir.pdf	Scratch Jnr All devices
Programming - BeeBot App	How can I use algorithms to complete challenges?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_2_programming_beebots_app_2.pdf	
Key Vocabulary	Decomposition, debug, reason , detail, breakdown, task, Precise, logical reasoning, predication, debug, sequence						

Year 2 - Information Technology							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Information technology around us	How is information technology being used for good in our lives?					https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us	
Photography - Simple Photoshopping	How can I photoshop an image?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_2_photo_-_photoshopping.pdf	PicCollage
Data Handling - Venn Diagram	How can technology help me to sort my data?				https://drive.google.com/drive/folders/1QoJbcdGmfJShbFvh1qC7WUOjAB8TWr3?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_2_data_-_venn_diagram.pdf	Pic Collage iPad
Presentation - Interactive Images	How can I make my image interactive?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_2_presentation_-_thin_glink.pdf	
Key Vocabulary	Cut, copy, paste, caps lock, insert, image, save, clipboard, editing, header, highlight						

Year 2 - Digital Literacy							
<i>Self-Image and Identity</i>	<i>Online Relationships</i>	<i>Online Reputation</i>	<i>Online Bullying</i>	<i>Managing Online Information</i>	<i>Health, Well-being and Lifestyle</i>	<i>Privacy and Security</i>	<i>Copyright and Ownership</i>
DL - Are all people the same online as they are in real life? DL - How can people make themselves appear different online? DL - What things make me feel sad, worried, uncomfortable online and how can I get help?	DL - What do I need to make sure of when contacting someone online who I don't know well? (Penpal in another school/country) How may I contact someone I don't know well?	DL - How long does my information stay online? Who can help me if there is a problem? DL - Playing Games - Scarf	DL - What does online bullying look like? How does it make others feel? DL - What support is there for online bullying? DL - Types of bullying - Scarf	DL - How does a keyword help me find the information that I want? DL - Can I use my voice to search? DL - Is everything online true?	DL - How can guidance/rules help me be safe online?	DL - Who can see my personal information when it is online? What rules would keep my personal information private? DL - What is a password and where can it be used? What devices connect to the internet?	DL - Who owns the content that I find online

Year 3 - Computer Science							
	Design	Apply	Refine	Evaluate	Share	Link	App
Programming - Animation	How can coding help me to create an animation?				https://drive.google.com/drive/folders/15PmE4R_Jv157oD35Rr2NziGpYXIHeHVW?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/ks2_animations_in_scratch.pdf	Scratch 3.0 CB
Programming - Sequencing Sounds	How can I use sequencing in programming to create a piano?					https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music	Scratch CB
Key Vocabulary	Abstraction, information, relevant, pattern, same, different, complex, Sequence, inputs, outputs, code, design, programming, language, Scratch						

Year 3 - Information Technology							
	Design	Apply	Refine	Evaluate	Share	Link	App
Computer Networks - Network Explorer	How do computer networks work?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_3_network_explorer_1.pdf	Adobe Spark Video
Animations - Stop Motion Animation	How can I animate an object to tell a story?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_2_animation_-_stop_motion_animation.pdf	iCan Animate iPads
Presentations - Digital Comic	How can I use technology to make my comic digital?				https://drive.google.com/drive/folders/1c1WH2NS5NDL74hq9iihXOCJEF9OvLAc?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_3_presentation_-_book_creator_comic.pdf	Book Creator Pic Collage All devices
Data Handling - Interactive Story Graphs	How can I use technology to represent information?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_3_data_-_story_graphs.pdf	
Key Vocabulary	Touch type, edit, format, font, size, borders, shadows, duplicate, organise, undo, redo, autocorrect, clipart						

Year 3 - Digital Literacy							
Self-Image and Identity	Online Relationships	Online Reputation	Online Bullying	Managing Online Information	Health, Well-being and Lifestyle	Privacy and Security	Copyright and Ownership
DL - What does identity mean? DL - How can I represent myself online and why?	DL - What different technology-specific ways may I communicate with people online? (emojis, acronyms, text speak) DL - What risks are there with talking to someone online/ who can you trust? DL - How can my actions impact others online? Is it ok to stop communicating online? DL - Trust and Liking - Is there a diff.?	DL - How should I treat information about me when I am online? DL - Is it worth checking first? DL - None of your business - Scarf	DL - What is online bullying and what is the impact? DL - What rules about how to behave online should be followed?	DL - What is a search phrase? DL - Belief, opinion, fact - what's the difference? DL - Super Searcher - Scarf	DL - Why can technology have a negative impact on me?	DL - Who do I share with? DL - Why are passwords important? DL - What does every connected device collect and share?	DL - What happens if I copy someone else's work from the internet?

Year 4 - Computer Science							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Programming - Repetition in shapes	What is repetition? What are loops? in programming					https://teachcomputing.org/curriculum/key-stage-2/programming-a-repetition-in-shapes	Logo programming All devices
Programming - Robot Orchestra	How can coding help me to create an orchestra?				https://drive.google.com/drive/folders/1-h8Ha88DmuzMuqUNd5MtUw3hUbXpgvYK?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/ks2_crumble_powered_robot_orchestra_.pdf	Crumbles (Paid)
Key Vocabulary	Logical reasoning, design, algorithmic thinking, selection, repeat Repetition, loop, foreverloop, count controlled loop, selection, condition, systematic						

Year 4 - Information Technology							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Computer Networks - Understanding the internet	How does the internet work?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_4_networks_-_the_internet.pdf	Green Screen - iPads
Presentations - Digital Posters	How can technology help me to present my work in an interesting and engaging way?				https://drive.google.com/drive/folders/1k9dv2PSTUhVyC5JpZ8rhPgUG_G4oIE34?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_4_presentation_-_posters.pdf	PicCollage
Data Handling - Online Questionnaire	How can I use technology to create an online questionnaire?				https://drive.google.com/drive/folders/1JxFcciTVdVejUlvml0ADPHdsoJznFYyP?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_4_data_-_online_questionnaire_.pdf	Google Forms All devices
Video Creation - Visual Storytelling						https://www.mrpict.com/uploads/1/8/7/2/18722690/year_4_video_-_adobe_spark_video.pdf	
Key Vocabulary	Group, crop, source, object, posters, documents, eBooks, scripts, leaflets, CTRL, spell check, thesaurus, record						

Year 4 - Digital Literacy							
<i>Self-Image and Identity</i>	<i>Online Relationships</i>	<i>Online Reputation</i>	<i>Online Bullying</i>	<i>Managing Online Information</i>	<i>Health, Well-being and Lifestyle</i>	<i>Privacy and Security</i>	<i>Copyright and Ownership</i>
DL - How can your online identity be different to how you present in 'real life'? How are you and others perceived online? DL - Picture Wise - Scarf	DL - How can I stay safe and have fun online? DL - Why is it important to be respectful?	DL - Can others easily find you online? DL - How can my online information be created, copied or shared by others?	DL - Where might online bullying happen? How? DL - What consequences can my actions have?	DL - How do I decide if it is a fact? DL - Where can I search for information? DL - How are people persuaded to buy things online? DL - Why aren't all online opinions and beliefs fact?	DL - Is it important to limit our time online? How can we do this?	DL - What makes a password strong? DL - How do I keep my personal information private? DL - Who monitors our internet use?	DL - If I find it online, can I reuse it?

Year 5 - Computer Science							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Programming - Platform Game	How can coding help to design an interactive game where I can collect points?				https://drive.google.com/drive/folders/1YGyQGv-q1HWOD-4RBv0IRbn1hrx_Oltv?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/ks2_platform_game_in_scratch.pdf	Scratch 3.0 CB
Programming - Quiz	How can coding help me to create an interactive quiz?				https://drive.google.com/drive/folders/1FQ1Bwn7oG3hcj-pLux5MUZqxoqixTVsN?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/ks2_quizzes_in_scratch.pdf	Scratch 3.0 CB
Key Vocabulary	Evaluation, effectiveness, complexity, data, predication, condition. Data, memory, variables, value, initialization, control, simulate, physical system						

Year 5 - Information Technology							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Computer Networks - Search Engine	How do search engines work?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_5_search_engines_1.pdf	Adobe spark post
Video Creation - Green Screen	How does Greenscreen improve my movie?				https://drive.google.com/drive/folders/14THVf8XJAPDctJymsli0AmD89L7waUsV?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_5_video_-_greenscreen_news_report.pdf	Doink Greenscreen and iMovie iPad
Data Handling	How can we use simple formulas to solve calculations?				https://drive.google.com/drive/folders/1LdbL1ZOJHDuZ1QTEK5nxwjMuH4kqsAle?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_5_-_data_handling_-_google_sheets.pdf	
Animation - Character Interview	How can I use technology to interview someone from the past?				https://drive.google.com/drive/folders/1EhtKieg2ZYK1T7SnFvODEvCzw7SZGHL?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_5_animation_-_character_interviews.pdf	Animate Anything & Apple Clips iPad
Key Vocabulary	Import, export, hyperlinks, animate, build in, build out, italics, bold, arrange, bullets.						

Year 5 - Digital Literacy							
<i>Self-Image and Identity</i>	<i>Online Relationships</i>	<i>Online Reputation</i>	<i>Online Bullying</i>	<i>Managing Online Information</i>	<i>Health, Well-being and Lifestyle</i>	<i>Privacy and Security</i>	<i>Copyright and Ownership</i>
DL - Can your online identity be copied, modified or altered? DL - Why do you need to be	DL - Does everyone want to be your friend? DL - What is an online community?	DL - How can I find information about someone online? DL - How can online	DL - How do you know if someone is upset, hurt or angry online? DL - How can I help? What can I do to help stop it? Who can help?	DL - Which is the best online search result for me? DL - What do we mean by the following: data, information, fact, opinion, belief, true, false, valid, reliable, evidence? DL - What is the difference between mis- and dis- information? DL - Why do we need to be 'sceptical'?	DL - How does technology impact my sleep? What tips, advice or strategies could help with healthy sleep?	DL - How would we create a strong and secure password? DL - What do apps want from me?	DL - When is it acceptable to use the work of others?

responsible online with your identity?	DL - Play, like, share - Scarf	information impact character judgement?	DL - Spot Bullying - Scarf	DL - Communication - Scarf DL - Is it true? - Scarf			
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Year 6 - Computer Science							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Programming - Video Game	How can coding allow me to make my own video game?				https://drive.google.com/drive/folders/1KXu-4HFgDR6D2aNsG7PKlOo3sHVxEoyz?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/ks2_game_project_inn_scratch.pdf	Scratch 3.0
Programming - Crumbles (Links to DT)	How can coding be used to create electrical systems that cause lights to flash and parts to move?						Crumbles
Key Vocabulary	Generalisation, pattern, reuse, modify, remix, critical Procedure, abstraction, conditional loop, logic, operator, implement						

Year 6 - Information Technology							
	<i>Design</i>	<i>Apply</i>	<i>Refine</i>	<i>Evaluate</i>	<i>Share</i>	<i>Link</i>	<i>App</i>
Computer Networks - HTML	What is HTML?					https://www.mrpict.com/uploads/1/8/7/2/18722690/year_6_networks_html.pdf	Glitch X-Ray goggles
Webpage Creation	What do I need to think about when I create my own webpage?					https://teachcomputing.org/curriculum/key-stage-2/creating-media-web-page-creation	
Data Handling - Spreadsheets	What formulas will help solve more challenging maths problems? Where would I publish my own online quiz?				https://drive.google.com/drive/folders/1WWeFIFUz2ncO3uqaPLyDD7FMTY0dQlcQ?usp=sharing	https://teachcomputing.org/curriculum/key-stage-2/data-and-information-spreadsheets	Google Sheets CB
Animation - 3D Animation	How can I use technology to create a 3D animation?				https://drive.google.com/drive/folders/1HMdNw_AqIbReqjOAP5HrDVczAI0oQqE5?usp=sharing	https://www.mrpict.com/uploads/1/8/7/2/18722690/year_6_animation_-_plotagon_animation.pdf	Plotagon iPad
Key Vocabulary	Alignment, application, tabs, toolbar, layout, shift key, PDF, columns						

Year 6 - Digital Literacy							
<i>Self-Image and Identity</i>	<i>Online Relationships</i>	<i>Online Reputation</i>	<i>Online Bullying</i>	<i>Managing Online Information</i>	<i>Health, Well-being and Lifestyle</i>	<i>Privacy and Security</i>	<i>Copyright and Ownership</i>
DL - How do the media shape ideas about gender? DL - How can issues online impact mine and others feelings? What can I do to get help? DL - Fakebook friends - Scarf	DL - How can my online actions impact others' well-being? DL - What can I do to support others online?	DL - What is my online reputation? DL - How can I build a positive online reputation?	DL - How can a screen grab help stop bullying? DL - How many ways are there to report a concern? DL - Think before you click - Scarf	DL - How do search engines work? DL - How do I know if my internet search is any good? DL - What do the terms 'influence', 'manipulation', and 'persuasion' mean? DL - How do I identify, flag and report inappropriate content?	DL - How can technology impact my life? DL - What can I do to look after my health?	DL - What's in a password? DL - How can my app privacy be protected? DL - What is phishing? DL - It's a puzzle - Scarf	DL - How do I reuse work that is not mine?

	DL - To share or not to share? - Scarf			DL - Traffic lights - Scarf			
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