

Marriott Primary School – Computing Concepts Progression

CS – Computer Science strand

IT – Information Technology strand

DL – Digital Literacy strand

	Foundation 1	Foundation 2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Coding and Computational Thinking	- Play with equipment that simulates control devices (push button toys)	- Play with equipment that simulates control devices (push button toys)	- Sorting items using criteria - Grouping items using criteria	- Understand the term 'algorithm' - Create a program using simple algorithms	- Understand the terms 'algorithm', 'decomposition', 'pattern recognition', 'abstraction' and 'system'. - Understand why sequencing is important	- Recap on Computational Thinking vocabulary from previous year groups and apply them to simulate real life scenarios - Use and create own algorithms	- Recap on Computational Thinking vocabulary from previous year groups and apply them to simulate real life scenarios - Understand how different types of data is stored on a computer	- Recap on Computational Thinking vocabulary from previous year groups and apply them to simulate more complex real life scenarios - Recap using variables, 'If/Else', 'Forever' and 'While' code blocks
Year 1: Unit 1.2, 1.4, 1.5, 1.7	- Explore outcomes when individual buttons are pressed on a robot	- Follow simple instructions	- Follow simple instructions - Create simple instructions - Consider how order of instructions affects result	- Compare 'objects' within code - Use the 'repeat' and 'timer' command	- Solve problems using computational thinking	- Sequence steps correctly to create a song	- Understand how computers in a network communicate	- Use decomposition within real life coding problems
Year 2: Unit 2.1	- Using direction keys	- Build one step instructions	- Using direction keys - Create and debug a set of instructions	- Debug simple programs - Make predictions and analyse own code and code of others	- Identify computers around us in the World - Manipulate physical computing resources (ToodleBit)	- Use physical inputs and outputs - Use variables to store and manipulate data	- Control a loop using 'while' and 'forever' coding blocks	- Understand and use 'arrays'
Year 3: ToodleBit 1 and 2	- Follow simple instructions	- Debug a simple algorithm and make corrections	- Change and extend algorithms - Share algorithms with peers	- Understand the term 'debugging' - Debug simple programs	- Use loops, inputs and	- Use "If/Else" commands when coding	- Recap on using 'If/Else' commands	
Year 4: ToodleBit 3 and 4	- Using direction keys							
Year 5: ToodleBit 5 and 6	- Understand whether an algorithm has been successful or not							
Year 6: ToodleBit 7 and 8								

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		<ul style="list-style-type: none"> - Play with a simple adventure programme or simulation 	<ul style="list-style-type: none"> - Build one and two step instructions using printable code cards - Explain what a block of code is - Read through combined blocks of code <ul style="list-style-type: none"> - Create background and characters - Design and execute a simple program, using inputs and outputs - Create and debug simple programs - Use logical reasoning to predict the behaviour of simple programs 		<ul style="list-style-type: none"> outputs to solve problems <ul style="list-style-type: none"> - Use debugging and logical reasoning to create own game 	<ul style="list-style-type: none"> debug own coding creation 	<ul style="list-style-type: none"> when coding <ul style="list-style-type: none"> - Recap on using variables and physical input/outputs - Use 'For' and 'If/Then' coding blocks - Plan, test and debug own coding creation 	
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Spreadsheets	- Understand that your use a mouse to move around the screen	- Play a variety of games that help them to learn mouse control and technique	- Understand rows and columns - Use save and open function	- Understand rows and columns - Use save and open function	- Create a table of data Create charts and graphs from data	- Use number formatting tools - Add a formula cell to automatically make calculation	- Create formula in spreadsheet to convert between units of measure - Use 'how many' tool in different context within spreadsheet	- Use 'copy' and 'paste' shortcuts effectively - Use 'count' tool to solve a problem - Use formula wizard to create formulae - Use spreadsheet to solve range of real-life problems
Year 1: Unit 1.3			- Enter data - Move and locks cells	- Enter data - Move and locks cells	- Use 'more than', 'less than' and 'equals' tools	- Use 'timer', 'random number' and 'spin' tools to create fun ways to explore number	- Use 'advanced mode' to produce formulae that solves mathematical equations (e.g. finding area)	
Year 2: Unit 2.3	- Drag name on a screen or interactive whiteboard to indicate they are here today. (Begin with picture of child; extend by adding their name, then remove picture)	- Develop mouse control - moving, clicking, dragging etc and use simple drag and drop matching software - first with pictures or sounds moving to letters and text	- Use 'count' and 'speak' tool	- Use 'count' and 'speak' tool - Use 'copy' and 'paste' tool - Use 'total' tool	- Describe a cell location on a spreadsheet - Find specific locations in a spreadsheet	- Use a series of data to create a line graph - Make practical use of a spreadsheet (e.g. budgeting) - Convert between	- Use spreadsheet to model a real-life situation and come up with solutions that can be	
Year 3: Unit 3.3				- Using images (coins) in a spreadsheet - Create table of data - Create block graph				
Year 4: Unit 4.3								
Year 5: Unit 5.3								
Year 6: Unit 6.3								

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						currencies using spreadsheet - Use images within spreadsheet in cross- curricular context (e.g. place value)	practically applied (e.g. budgeting, shopping etc)	
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Internet and Email	- With support, type and send a short email from a class account (e.g. a letter to Santa)	- Support children in exchanging emails, perhaps with an imaginary story character (adult receives the emails and replies appropriately)	- Logging in - Taking ownership of work - Finding saved work and other resources - Using icons to find resources - Adding pictures and text to work - Using common icons (e.g. Save, Print, Open, New) - Exploring Games - Logging out	- Use search tools and refine information - Understand approval of content by others - Understand how to use, open and send emails - Discuss own experiences and what makes them happy or sad - Understand the term 'digital footprint' - Identify steps to keep data and information secure online - Understand	- Understand what makes a good password - Understand that some information may not be accurate or true - Create a 'spoof' website - Identify physical and emotional effects from accessing different content - Relate cyberbullying to real world contexts - Highlight strengths and weaknesses of	- Understand security symbols online (e.g. padlock) - Understand the term 'phishing' and be aware of scam websites - Explain how a digital footprint can link to identity theft - Identify risks of installing paid and free software - Understand the terms 'malware' and 'virus' - Understand the term 'plagiarism' - Understand the difference between using	- Know who to tell if something online upsets them - Understand and use SMART rules - Think critically about what they share online - Have a clear idea about good passwords - Understand how image manipulation can have advantages and disadvantages - Understand importance of citing sources when researching	- Identify benefits and risks of mobile devices and other software - Understand broadcasting location of user - Understand the term 'digital footprint' and understand how people use information to create 'online presence' - Understand consequences of promoting inappropriate content and how to put a stop to it - Understand importance of balancing
Year 1: Unit 1.1								
Year 2: Unit 2.2, 2.5								
Year 3: Unit 3.2, 3.5								
Year 4: Unit 4.2, 4.7								
Year 5: Unit 5.2								
Year 6: Unit 6.2								

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				<p>the meaning of key internet terms (Internet/World Wide Web/Browser/Website/Web page/Web Address/Search Engine)</p> <ul style="list-style-type: none"> - Identify basic parts of a web search engine - Use information from a web search results page - Search for answers, using search engines 	<p>different methods of communication</p> <ul style="list-style-type: none"> - Open and respond to series of emails - Write rules on how to stay safe using email - Explore scenarios involving real life applications - Attach appropriate files to emails - Understand the term 'CC' and how to use it 	<p>information and copying information</p> <ul style="list-style-type: none"> - Understand positive and negative influences of technology on wider world - Structure search queries to locate specific information - Use search technology to answer a series of questions - Write own search questions for others - Analyse web pages for credibility of information 	<ul style="list-style-type: none"> - Use keywords and search techniques to find relevant information - Understand advantages and disadvantages of different forms of communication 	<p>game and screen time with other parts of life</p> <ul style="list-style-type: none"> - Share opinions about advantages and disadvantages of technology and how technology affects health and the environment
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Art and Design	- With help, begin to experiment and use art tools to create a composition	- Understand there are a variety of tools in a graphics (art) package	- Know difference between traditional book and e-book	- Use simple drawing tools - Open and use clipart - Resize drawing tools - Use 'fill' tool - Use repeating patterns - Edit and improve work based on feedback	- Identify the difference between various types of art created by technology - Use technology to take photos and videos for a specific purpose and effect - Record sound using a digital device and input it to another - Use sound effects and music for a purpose - Use editing software to	- Produce physical and digital animation - Use 'onion skin' tool - Add backgrounds and sounds - Understand the term 'stop motion animation' - Create own stop motion animation - Publish work to a shared platform	- Review and analyse a computer game - Design own computer game, based on selected theme - Upload images or use drawing tools to create game environment - Design characters and include animation and sounds - Select appropriate options to make unique game and maximise playability - Evaluate own and peers' games to help improve design - Use different viewpoints in 3D modelling software	- Identify technological changes over time and compare modern technology with older technology - Record voice using a digital device and input it to another - Record and edit sound effects and music for a purpose - Using a variety of software independently, children to create
Year 1: Unit 1.6								
Year 2: Unit 2.6		- Begin to experiment and use art tools to create a composition for a purpose	- Add and edit text and pictures - Add animation and sound - Record own voice and music - Save and open previous work - Share work on a shared platform					
Year 3: N/A	- Discuss and talk about art composition with adult							
Year 4: Unit 4.6								
Year 5: Unit 5.5, 5.6	- Use an object based graphics program (e.g. whiteboard software) to create a scene by dragging objects into place on a background	- Write a simple sentence about composition - Understand the difference between image and text						
Year 6: N/A								

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					edit and change composition		<ul style="list-style-type: none">- Adapt 3D model by altering points to create own version- Edit and design 3D model for a purpose- Print own design as 2D net and create 3D model	presentations about specific topic
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Databases and Graphing								
Year 1: Unit 1.3	- With help, begin to develop simple classification skills by carrying out simple sorting activities	- Begin to develop simple classification skills by carrying out simple sorting activities independently	- Understanding data in picture form - Contributing to class project - Using pictogram to record results	- Understand limitations of pictograms/binary tree - Use 'YES' or 'NO' questions to separate information - Understand the term 'binary tree' - Use a binary tree to sort pictures - Understand the term 'database' - Use database to answer simple and more complex search questions	- Use 'YES' and 'NO' questions - Contribute to shared branching database - Create own branching database - Select and save appropriate images - Use and debug own branching database - Set up graph with a given number of fields - Enter data for a graph - Share graphs on shared platform - Use graphs in a range of	- Use graphing and data tools from previous year groups in real life context (e.g. rainforest sorting, rainfall graph)	- Understand different ways to search a database - Use 'find' tool to search for specific information - Use 'sort', 'group' and 'arrange' tool - View data in different tables, based on clarity - Use 'statistics' and 'report' tool to find statistical information about a database	- Use previous database skills to create a database about a real-life context and find statistical information about it - Use data points to create conclusions about data - Adapt inefficient databases and debug them
Year 2: Unit 2.4								
Year 3: Unit 3.6, 3.8								
Year 4: N/A								
Year 5: Unit 5.4								
Year 6: N/A								

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					contexts - Present results in a range of graphical formats			
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Writing and Presenting	- Begin to use a keyboard (with support) and notice the effect on screen	- Begin to understand that ICT can be used to communicate ideas in different ways	- Write simple sentences with some accuracy, using the keyboard	- Write simple sentences with more accuracy, using the keyboard	- Understand the names of fingers - Understand the terms 'top row', 'home row', 'bottom row' and 'top row'	- Develop typing speed with some accuracy at 30 WPM - Use text formatting to fit for purpose and audience - Interpret variety of communications to include in report - Create mind-map - Use ideas from mind-map to structure writing - Assess suitability of work produced	- Develop typing speed with more accuracy at 35 WPM - Record information visually - Understand the terms 'concept maps', 'stage', 'nodes' and 'connections' - Create a basic concept map - Work collaboratively with others to create a concept map	- Develop typing speed with more accuracy at 40 WPM - Work collaboratively with others to research and plan a blog - Use software to create a blog, with focus to varying audiences - Understand that blogs need to be maintained regularly - Post comments and blog posts on existing blogs - Understand approval process of
Year 1: N/A								
Year 2: Unit 2.8								
Year 3: Unit 3.4	- With support, begin to write simple words	- With support, enter text into a search engine to find specific given web sites (e.g. CBeebies)	- Begin using technology to create writing for a purpose	- Understand digital content may be represented in many forms	- Use two hands to type on the keyboard - Can type individual and series of words with speed and accuracy			
Year 4: Unit 4.4	- Identify the difference between text and images		- To use the backspace key to edit mistakes, where appropriate	- Create a quiz about a story - Talk about work and alter based on feedback - Add appropriate pictures/clip-art and information				
Year 5: Unit 5.7				- Use a variety of software to manipulate content				
Year 6: Unit 6.4, 6.7	- With help, add captions to photographs, graphics and sound (perhaps choosing words from a prepared word list)	- With help, search for and choose images from the internet - With adult support; they create talking books about their visit	- Search for and add pictures to a document	- Present				

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		using Clicker/White board software		digital content to others				<ul style="list-style-type: none"> comments - Demonstrate awareness of issues surrounding inappropriate posts and cyberbullying - Assess effectiveness and impact of a blog - Use software appropriately, based on specific audience (e.g. younger children) - Share quiz with peers and edit and improve, based on feedback - Design own quiz that requires user
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								to search a database
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Communication and Networks Year 1: Unit 1.9 Year 2: N/A Year 3: Unit 3.7 Year 4: Unit 4.8 Year 5: N/A Year 6: Unit 6.6	- With support, to find a specific program and open it - Understand that technological devices can be used to record and play back sounds	- Understand that cameras can take still and moving images (video) - With support, perform basic instructions (such as logging in and logging out) - To find a specific program and open it - With help, save their own content in their own	- Logging in to an account (PurpleMash and ClassDojo) - Taking ownership of work - Respond to a teacher's task on ClassDojo - Finding saved work and other resources - Using icons to find resources - Adding pictures and text to work - Using common icons (e.g. Save,	- Perform basic functions of a computer (e.g. Logging in, logging off, opening specific programs, opening work, saving work) - Add pictures and sound to a document - Begin to use search technology to research - Use a range of technology (e.g. cameras,	- Identify examples of different simulations (real or imaginary situations) - Give examples of simulations from own knowledge - Suggest advantages and disadvantages of simulations - Use simulation to test predictions - Evaluate simulations,	- Name different parts of a desktop computer - Understand function of different parts of a computer	- Use search technology effectively to find out information on topics of interest	- Know the difference between the 'World Wide Web' and the 'Internet' - Understand their own school network - Use search technology effectively to find out information on specific people - Consider major changes in technology in the past, present and future

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		electronic folder - Use voice amplifying or changing equipment and notice the effect and record using a microphone	Print, Open, New) - Exploring Games - Logging out of an account (PurpleMash and ClassDojo) - Understand the term 'technology' - Consider types of technology inside and outside of school - Record examples of technology outside of school	microphones) for a range of purposes	based on real life contexts and usefulness - Recognise patterns within simulations			
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See following page for overview of units and where they fit at a glance:

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Theme Key:															
	Coding and Computational thinking		Spreadsheets		Internet and Email		Art and Design		Music		Databases and graphing		Writing and Presenting		Communication and networks

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
YEAR 1	Unit 1.1 Online Safety & Exploring Purple Mash				Unit 1.2 Grouping & Sorting		Unit 1.3 Pictograms		Unit 1.4 Lego Builders		Unit 1.5 Maze Explorers		Unit 1.6 Animated Story Books			Unit 1.7 Coding				Unit 1.8 5spreadsheets			Unit 1.9 Technology outside school								
	Weeks – 4				Weeks – 2		Weeks – 3		Weeks – 3		Weeks – 3		Weeks – 5			Weeks – 6				Weeks – 3			Weeks – 2								
	Programs – Various				Programs – 2DIY		Programs – 2Count		Programs – 2DIY		Programs – 2Go		Programs – 2Create A Story			Programs – 2Code				Programs – 2Calculate			Programs – Various								

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 2	Unit 2.1 Coding					Unit 2.2 Online Safety			Unit 2.3 Spreadsheets				Unit 2.4 Questioning				Unit 2.5 Effective Searching		Unit 2.6 Creating Pictures					Unit 2.7 Making Music			Unit 2.8 Presenting Ideas					
	Weeks – 5					Weeks – 3			Weeks – 4				Weeks – 5				Weeks – 3		Weeks – 5					Weeks – 3			Weeks – 4					
	Programs – 2Code					Programs – Various			Programs – 2Calculate				Programs – 2Question, 2Investigate				Programs – Browser		Programs – 2PaintAPicture					Programs – 2Sequence			Programs – Various					

YEAR 3	Unit 3.1 Coding					Unit 3.2 Online safety			Unit 3.3 Spreadsheets				Unit 3.4 Touch Typing			Unit 3.5 Email (including email safety)					Unit 3.6 Branching Databases			Unit 3.7 Simulations			Unit 3.8 Graphing		
	Number of Weeks – 6					Weeks – 3			Weeks – 3				Weeks – 4			Weeks – 6					Weeks – 4			Weeks – 3			Weeks – 3		
	Main Programs – 2Code					Programs – Various			Programs – 2Calculate				Programs – 2Type			Programs – 2Email, 2Connect, 2DIY					Programs – 2Question			Programs – 2Simulate, 2Publish			Programs – 2Graph		

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
YEAR 4	Unit 4.1 Coding						Unit 4.2 Online safety				Unit 4.3 Spreadsheets						Unit 4.4 Writing for different audiences					Unit 4.5 Logo			Unit 4.6 Animation			Unit 4.7 Effective Search		Unit 4.8 Hardware Investigators			
	Number of Weeks – 6						Weeks – 4				Weeks – 6						Weeks – 5					Weeks – 4			Weeks – 3			Weeks – 3		Weeks – 2			
	Main Programs – 2Code						Programs – Various				Programs – 2Calculate						Programs – 2Email, 2Connect, 2DIY					Programs – 2Logo			Programs – 2Animate			Programs – Browser					

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 5	Unit 5.1 Coding						Unit 5.2 Online safety			Unit 5.3 Spreadsheets						Unit 5.4 Databases				Unit 5.5 Game Creator				Unit 5.6 3D Modelling				Unit 5.7 Concept Maps				
	Number of Weeks – 6						Weeks – 3			Weeks – 6						Weeks – 4				Weeks – 5				Weeks – 4				Weeks – 4				
	Main Programs – 2Code						Programs - Various			Programs – 2Calculate						Programs – 2Question, 2Investigate				Programs – 2DIY 3D				Programs – 2Design and Make				Programs – 2Connect				

Week	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
YEAR 6*	Unit 6.1 Coding						Unit 6.2 Online safety			Unit 6.3 Spreadsheets					Unit 6.4 Blogging				Unit 6.5 Text Adventures				Unit 6.6 Networks			Unit 6.7 Quizzing						
	Number of Weeks – 6						Weeks – 2			Weeks – 5					Weeks – 5				Weeks – 5				Weeks – 3			Weeks – 6						
	Main Programs – 2Code						Programs - Various			Programs – 2Calculate					Programs – 2Blog				Programs – 2Code, 2Connect							Programs – 2Quiz, 2DIY, Text Toolkit, 2Investigate						