

Computing Statement of Intent

At Folksworth Church of England Primary School we recognise how digital technologies have become integrated into every aspect of our pupil's lives. With this in mind, we aim for all pupils to become digitally literate and competent end-users of technology, able to choose the best tool to fulfil the task or challenge and to safely access an ever expanding digital world.

We use the Kapow Primary Computing Curriculum to equip children with the knowledge and skills required for future learning. Pupils develop creativity, resilience, problem-solving and critical thinking skills that will enable pupils to embrace and utilise new technology in a socially responsible and safe way in order to flourish.

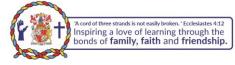
We integrate the use of digital technology into all areas of our curriculum, preparing pupils for life beyond the primary classroom.

We aim to make digital technologies accessible to all pupils, regardless of background, and to access the benefits of technology as a tool to support those with additional needs.

It is important for our pupils to become good digital citizens recognising that, through technology, they can become part of



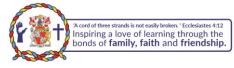
a global community. We model and educate our pupils on how to use technology positively and safely.



Computing Unit Overview

YEAR A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Magical Me	Celebrations	Around the World	Come Outside! Growing	Amazing Animals	Journeys: Fun at the Seaside
	Х	Using a Computer	All About Instructions	Exploring Hardware	Bee-Bots	Introduction to Data
Years 1 & 2	Paddington at the Tower <i>Michael Bond</i>	Toby and the Great Fire of London <i>Margaret Nash & Jane</i> <i>Cope</i>	The Jolly Postman Janet & Allan Ahlberg	The Magic Faraway Tree Enid Blyton	The Lighthouse Keepers' Lunch Ronda & David Armitage	George's Marvellous Medicine <i>Roald Dahl</i>
	Improving Mouse Skills	Algorithms Unplugged	Rocket to the Moon	What is a computer?	Algorithms and debugging	Word Processing
Years 3 & 4	Charlie and The Chocolate Factory <i>Roald Dahl</i>	Demon Dentist David Walliams	Beowulf Rob Lloyd Jones and Victor Tavares	The Saga of Erik The Viking <i>Terry Jone</i> s	Poems to Perform Julia Donaldson	The Time Travelling Cat and the Egyptian Goddess <i>Julia Jarman</i>
	Emailing	Programming: Scratch	Video Trailers	Website Design	Further Coding with Scratch	Computational Thinking
Years 5 & 6	Cosmic Frank Cottrell Boyce	The Nowhere Emporium Ross MacKenzie	Rain Pla David Wisn		Goodnight Mr Tom Michelle Magorian	Macbeth (A Shakespeare Story) Andrew Matthews and Tony Ross
	Mars Rover 1	Mars Rover 2 / Lego We-Do (Mars Rovers)	Introduction to Python	History of Computers	Bletchley Park	Inventing a Product

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YEAR B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Magical Me	Celebrations	Around the World	Come Outside! Growing	Amazing Animals	Journeys: Fun at the Seaside
	X	Using a Computer	All About Instructions	Exploring Hardware	Bee-Bots	Introduction to Data
Years	Dogger	The Owl Who was	The Tiger who	Handa's	The Day the	The Owl and the
1&2	Shirley Hughes	Afraid of the Dark Jill Tomlinson	came to tea Judith Kerr	Surprise Eileen Browne	Crayons Quit Drew Daywalt & Oliver Jeffers	Pussycat Edward Lear
	Bee - Bots	Digital Imagery	Introduction to Data	Scratch Jr	International Space Station	Stop Motion
Years 3 & 4	Stig of the Dump <i>Clive King</i>	The Firework Makers Daughter <i>Philip Pullman</i>	The Iron Man <i>Ted Hughes</i>	Run Wild <i>Gill Lewis</i>	Avoid Being a Roman Soldier <i>David Stewart</i>	The Thieves of Ostia Caroline Lawrence
	Networks and the Internet	Comparison Cards	Journey inside a computer	Collaborative Learning	Investigating Weather	HTML
Years 5 & 6	Tudor Tales: The Thief, the Fool and the Big Fat King <i>Terry Deary</i>	The Spy Master: First Blood Jan Burchett & Sara Vogler	The Storm Keeper's Island Catherine Doyle	The Highwayman <i>Alfred Noyes</i>	Beasts of Olympus: Beastkeeper Lucy Coats & David Roberts	Percy Jackson and the Lightning Thief <i>Rick Riordan</i>
	Search Engines	Micro:Bit	Programming Music	Stop Motion Animation	Big Data 1	Big Data 2

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Computing Progression of Knowledge and Skills

By Year Group

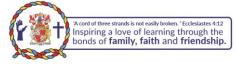
	Computer Science	E-Safety	Information Technology	Digital Literacy				
Year Group	Standardised Objectives							
Year 1	 Begin to develop an understanding of algorithms Begin to understand that programs work by following instructions Create simple programs and begin to debug them Develop reasoning to predict the behaviour of simple programs Begin to recognise common uses of information technology beyond school Develop an understanding of how to use technology safely Know where to go for help/support when they have concerns about content/contact on internet Use technology to create, store and retrieve digital content 							
Year 2	 Understand what algorithms are Understand how algorithms are implemented as programs on digital devices Understand that programs execute by following precise and unambiguous instructions Use logical reasoning to predict the behaviour of simple programs Create and debug simple programs Recognise common uses of information technology beyond school Use technology safely and respectfully, keeping personal information private Identify where to go for help/support when they have concerns about content/contact on internet/other online technologies Use technology purposefully to create, store, retrieve, organise and manipulate digital content 							

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Year 3	 Start to use reasoning to understand how algorithms work Detect errors in algorithms and programs Begin to solve problems by decomposing them into smaller parts Start to use sequence and selection in programs Begin to develop understanding of how to write and debug programs that accomplish specific goals Begin to work with various forms of input/output Show emerging understanding of computer networks including the internet and how they provide multiple services Use some search technologies effectively and appreciate how results are ranked Decide which questions to ask when using search engines Use technology safely, responsibly and respectfully Recognise acceptable/unacceptable behaviour Identify ways to report concerns about content/contact Use a variety of software on digital devices
Year 4	 Use logical reasoning to understand how algorithms work Detect and correct errors in algorithms and programs Begin to solve problems by decomposing them into smaller parts Start to use sequence, selection and repetition in programs Write and debug programs that accomplish specific goals Work with variables and various forms of input/output Understand computer networks including the internet and how they provide multiple services Use search technologies effectively and appreciate how results are selected and ranked Evaluate the reliability of digital content Begin to ask and answer questions based on the reliability of digital content Recognise acceptable/unacceptable behaviour and identify ways to report concerns about content/contact

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	Select and use a variety of software on digital devices
Year 5	 Use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs Solve problems by decomposing them into smaller parts Use sequence, selection and repetition in programs Write and debug programs that accomplish specific goals Accurately manipulate variables and various forms of input/output Use a wide range of search technologies effectively and appreciate how results are selected and ranked Be discerning in evaluating the reliability of digital content Recognise the opportunities computer networks offer for communication and collaboration Confidently, competently and responsibly use information and communication technology Express own ideas by selecting, using and combining a variety of software on digital devices to design and create programs
Year 6	 Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems Solve problems by decomposing them into smaller parts Use sequence, selection and repetition accurately in programs Accurately manipulate a wide range of variables and various forms of input/output Securely use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs Appreciate how results are selected and ranked and use this to retrieve accurate content Be discerning in evaluating the reliability of digital content Use the opportunities computer networks offer for communication and collaboration Confidently, competently and responsibly use information and communication technology Express own ideas by selecting, using and combining a variety of software on a range of digital devices and create programs

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By Theme

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	Computer Science								
	Begin to develop an understanding of algorithms Begin to understand that programs work by following instructions Create simple programs and begin to debug them Develop reasoning to predict the behaviour of simple programs	Understand what algorithms are Understand how algorithms are Implemented as programs on digital devices Understand that programs execute by following precise and unambiguous instructions Use logical reasoning to predict the behaviour of simple programs Create and debug simple programs	Start to use reasoning to understand how algorithms work Detect errors in algorithms and programs Begin to solve problems by decomposing them into smaller parts Start to use sequence and selection in programs Begin to develop understanding of how to write and debug programs that accomplish specific goals, including controlling or simulating physical systems Begin to work with various forms of input/output	Communicate, generate and develop Ideas using a range of strategles eg prototypes, pattern pleces Use research to Inform design and develop design criteria Take risks to become Innovative and resourceful	Communicate, generate, develop and model ideas using a range of strategies eg computer- aldeddesign, cross-sectional and exploded diagrams Use research to inform design and generate own design criteria Communicate, generate and develop ideas, drawing on other disciplines eg science, maths, computing Confidently take calculated risks to become innovative, resourceful and enterprising	Communicate, generate and develop ideas, drawing on other disciplines eg science, maths, computing Use research to inform innovative design and generate own design criteria Confidently take calculated risks to become innovative, resourceful and enterprising			
Digital Literacy									
	Use technology to create, store and retrieve digital content	Use technology purposefully to create, store, retrieve, organise and manipulate digital content	Use a variety of software on digital devices	Select and use a variety of software on digital devices	Express own ideas by selecting, using and combining a variety of software on digital devices to design and create programs	Express own ideas by selecting, using and combining a variety of vsoftware on a range of digital devices and create programs			

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EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	Information Technology								
	Begin to recognise common uses of information technology beyond school	Recognise common uses of Information technology beyond school	Show emerging understanding of computer networks including the internet and how they provide multiple services such as the World Wide Web Use some search technologies effectively and appreciate how results are selected Decide which questions to ask when using search engines	Understand computer networks Including the Internet and how they provide multiple services such as the World Wide Web Use search technologies effectively and appreciate how results are selected and ranked Evaluate the reliability of digital content Begin to ask and answer questions based on the reliability of digital content	Recognise the opportunities computer networks offer for communication and collaboration Use a wide range of search technologies effectively and appreciate how results are selected and ranked Be discerning in evaluating the reliability of digital content	Use the opportunities computer networks offer for communication and collaboration Appreciate how results are selected and ranked and use this to retrieve accurate content Be discerning in evaluating the reliability of digital content			
			E-Safety						
	Develop an understanding of how to use technology safely Know where to go for help/ support when they have concerns about content/contact on internet	Use technology safely and respectfully, keeping personal Information private Identify where to go for help/ support when concerned about content/contact on Internet/other online technologies	Use technology safely, respectfully and responsibly Recognise acceptable/ unacceptable behaviour and identify ways to report concerns about content and contact	Recognise acceptable/ unacceptable behaviour and identify ways to report concerns about content and contact	Confidently, competently and responsibly use information and communication technology	Confidently, competently and responsibly use information and communication technology			

