

## **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.

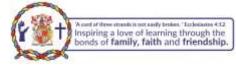
Through our computing curriculum we equip children with the knowledge and skills required for future learning. Pupils develop creativity, resilience, problem-solving and critical thinking skills that will enable pupils to embrace and utilise new technology in a socially responsible and safe way in order 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.



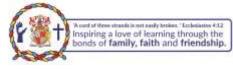
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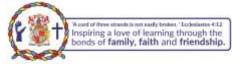
## **Computing Unit Overview**

YEAR A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Years 1 & 2	Paddington at the Tower	Toby and the Great Fire of	The Jolly Postman Janet & Allan Ahlberg	The Magic Faraway Tree	The Lighthouse Keepers' Lunch	George's Marvellous Medicine	
	Michael Bond	London Margaret Nash & Jane Cope		Enid Blyton	Ronda & David Armitage	Roald Dahl	
	Text and Graphics	Text and Presentation	Programming	Data	Internet Research	Sound and Video Recording	
Years 3 & 4	Charlie and The Chocolate Factory <i>Roald Dahl</i>	Demon Dentist David Walliams			Poems to Perform Julia Donaldson	The Time Travelling Cat and the Egyptian Goddess Julia Jarman	
	Emails and Cloud Computing	Sound and Video Recording	Text, Graphics and Presentations	Internet Research	Programming	Data	
Years 5 & 6	Cosmic Frank Cottrell Boyce	The Nowhere Emporium Ross MacKenzie	Rain Player David Wisniewski		Goodnight Mr Tom <i>Michelle</i> <i>Magorian</i>	Macbeth (A Shakespeare Story) Andrew Matthews and Tony Ross	
	Programming	Data	Text, graphics and Presentation	Cloud Computing and email	Internet Research	Sound and Video Recording	

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Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Dogger	The Owl Who was	The Tiger who	Handa's	The Day the	The Owl and the
Shirley Hughes	Afraid of the Dark	came to tea	Surprise	Crayons Quit	Pussycat
	Jill Tomlinson	Judith Kerr	Eileen Browne	Drew Daywalt &	Edward Lear
				Oliver Jeffers	
Text and Presentation	Internet Research	Sound and Video	Data	Text and Graphics	Programming
		Recording			
				•	The Thieves of
Clive King	•	Ted Hughes	Gill Lewis		Ostia
					Caroline Lawrence
Animation	Graphics	Programming			Data
Tudar Talaa, Tha Thiaf, tha	The Spy Meeter	The Storm			Derey, leekson and
					Percy Jackson and the Lightning Thief
• •		-	• •		Rick Riordan
Terry Deary		Califerine Doyle	Alled Noyes		NICK MOLUAIT
	Gara Vogioi				
Presentation	Internet Research	Cloud Computing	Sound and	Programming	Data
		Internet Research			
			Recording		
	Dogger         Shirley Hughes         Text and Presentation         Stig of the Dump         Clive King         Animation         Tudor Tales: The Thief, the         Fool and the Big Fat King         Terry Deary	Dogger Shirley HughesThe Owl Who was Afraid of the Dark Jill TomlinsonText and PresentationInternet ResearchStig of the Dump Clive KingThe Firework Makers Daughter Philip PullmanAnimationGraphicsTudor Tales: The Thief, the Fool and the Big Fat King Terry DearyThe Spy Master: First Blood Jan Burchett & Sara Vogler	Dogger Shirley HughesThe Owl Who was Afraid of the Dark Jill TomlinsonThe Tiger who came to tea Judith KerrText and PresentationInternet ResearchSound and Video RecordingStig of the Dump Clive KingThe Firework Makers Daughter Philip PullmanThe Iron Man Ted HughesAnimationGraphicsProgrammingTudor Tales: The Thief, the Fool and the Big Fat King Terry DearyThe Spy Master: First Blood Jan Burchett & Sara VoglerThe Storm Keeper's Island Catherine Doyle	Dogger Shirley HughesThe Owl Who was Afraid of the Dark Jill TomlinsonThe Tiger who came to tea Judith KerrHanda's Surprise Eileen BrowneText and PresentationInternet Research Makers Daughter Philip PullmanSound and Video RecordingDataStig of the Dump Clive KingThe Firework Makers Daughter Philip PullmanThe Iron Man Ted HughesRun Wild Gill LewisAnimationGraphicsProgrammingSound and Video RecordingSound and Video RecordingTudor Tales: The Thief, the Fool and the Big Fat King <i>Terry Deary</i> The Spy Master: Sara VoglerThe Storm Keeper's Island Catherine DoyleThe Highwayman Alfred NoyesPresentationInternet ResearchCloud ComputingSound and Video Sound and Sound and Sound and Sara Vogler	Dogger Shirley HughesThe Owl Who was Afraid of the Dark Jill TomlinsonThe Tiger who came to tea Judith KerrHanda's Surprise Eileen BrowneThe Day the Crayons Quit Drew Daywalt & Oliver JeffersText and PresentationInternet Research Stig of the Dump Clive KingSound and Video RecordingDataText and GraphicsStig of the Dump Clive KingThe Firework Makers Daughter Philip PullmanThe Iron Man Ted HughesRun Wild Gill LewisAvoid Being a Roman Soldier David StewartAnimationGraphicsProgrammingSound and VideoText and PresentationTudor Tales: The Thief, the Fool and the Big Fat King Terry DearyThe Spy Master: Sara VoglerThe Storm Keeper's Island Catherine DoyleThe Alfred NoyesBeasts of Olympus: Beastkeeper Lucy Coats & David RobertsPresentationInternet ResearchCloud Computing Internet ResearchSound and VideoProgrammingPresentationInternet ResearchCloud Computing Internet ResearchProgramming

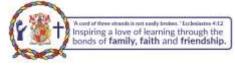


# Computing Progression of Knowledge and Skills

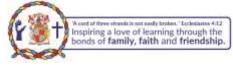
### By Year Group

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

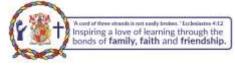
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Year 3	<ul> <li>Use technology safely, responsibly and respectfully</li> <li>Recognise acceptable/unacceptable behaviour</li> <li>Identify ways to report concerns about content/contact</li> </ul>
	Use a variety of software on digital devices
	<ul> <li>Use logical reasoning to understand how algorithms work</li> <li>Detect and correct errors in algorithms and programs</li> </ul>
	<ul> <li>Begin to solve problems by decomposing them into smaller parts</li> </ul>
	Start to use sequence, selection and repetition in programs
	Write and debug programs that accomplish specific goals
Year 4	
	<ul> <li>Understand computer networks including the internet and how they provide multiple services</li> <li>Use search technologies effectively and appreciate how results are selected and ranked</li> </ul>
	<ul> <li>Use search technologies enectively and appreciate now results are selected and ranked</li> <li>Evaluate the reliability of digital content</li> </ul>
	<ul> <li>Begin to ask and answer questions based on the reliability of digital content</li> </ul>
	Recognise acceptable/unacceptable behaviour and identify ways to report concerns about content/contact



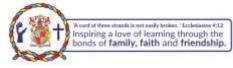
	Select and use a variety of software on digital devices
Year 5	<ul> <li>Use logical reasoning to understand how algorithms work and detect and correct errors in algorithms and programs</li> <li>Solve problems by decomposing them into smaller parts</li> <li>Use sequence, selection and repetition in programs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



#### By Theme

E	YFS	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 strategies eg prototypes, pattern pieces 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		N	2
	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 compute networks offer for communical and collaboration Appreciate how results are selected and ranked and use th 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 an communication technology

