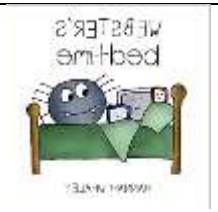
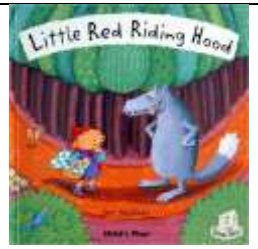
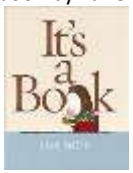
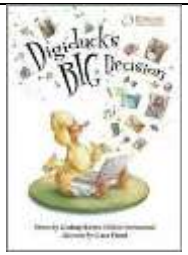
Cranford Park CE Primary School

Subject Overview for Computing

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Title of unit **Main Objectives /Skills**	**Title of unit** **Main Objectives /Skills**	**Title of unit** **Main Objectives /Skills**	**Title of unit** **Main Objectives /Skills**	**Title of unit** **Main Objectives /Skills**	**Title of unit** **Main Objectives /Skills**
Year 1	We are treasure hunters Using programmable toys Programming Programmable toys	We are TV chefs Filming a recipe Computational thinking Word/Movie Maker/iMovie/Adobe Premier Elements	We are painters Illustrating an eBook Creativity Tux Paint/Paint/2Paint/Word	We are collectors Finding images using the web Computer networks Internet browser/PowerPoint or IWB software	We are storytellers Producing a talking book Communication/ Collaboration PowerPoint/Photostory/Clicker 5	We are celebrating Creating a card electronically Productivity PowerPoint/Word/Clicker 5
Vocabulary	algorithm debug instructions predict programming robot treasure	algorithm clip edit film instructions recipe robot video camera	character eBook edit illustration traditional tale	algorithm copyright e-safety mammal permission personal private	audio book copyright microphone recording sound effects talking book	celebrate copyright edit greeting keyboard save type
Key texts	Smartie the Penguin – eBook 			Little Bird's Internet Security Adventure 	It's a book by Lane Smith 	
Year 2	We are astronauts Programming on screen Programming Scratch	We are games testers Exploring how computer games work Computational thinking Selection of free online games	We are researchers Researching a topic Computer networks /PowerPoint	We are photographers Taking, selecting and editing digital images Creativity Picasa/Pixelr/Picasa Web/Photoshop Elements	We are detectives Communicating clues Communication/ Collaboration Email software/Word	We are zoologists

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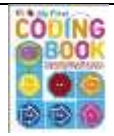
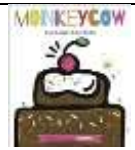
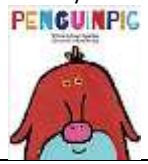
Key Vocabulary	algorithm instructions predict problem program robot Scratch sprite	algorithm predict rules Scratch test	Google mind map presentation research search search engine	camera image Picasa pixel portfolio theme	address attachment database evidence email fact file header safety	chart classification key data database photograph tally chart tick chart
	My First Coding Book by Kiki Prottsman 					Penguinpig by Stuart Spendlow and Amy Bradle 
Year 3	We are programmers Programming an animation Programming Scratch/Snap!/PowerPoint	We are presenters Videoing performance Creativity Movie Maker/Adobe Premier Elements/iMovie	We are bug fixers Finding and correcting bugs in programs Computational thinking Scratch/Snap!	We are network engineers Exploring computer networks, including the internet Computer networks Access to school network and command prompt	We are communicators Communicating safely on the internet Communication/ Collaboration Email software/Video conferencing software/ webcam	We are opinion pollsters Collecting and analysing data Productivity Excel/InspireData/Google Drive
Key Vocabulary	algorithm animation input output program script storyboard	audio close-up editing footage panning shooting video camera zooming	algorithm bugs debug instruction program script	command prompt internet IP address network packet of data ping router wi-fi	attachment email e-safety spam spoofed link video conference virus	chart data graph opinion questions rating scale research survey

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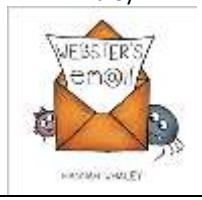
	Why are there different computing languages? By Kirsty Homes	Knights and Bikes by Gabrielle Kent& Rex Crowle	Glitch Sarah Graley	Look Inside How Computers Work	Webster's Email by Hannah Whaley 	
Year 4	We are software developers Developing a simple educational game Programming Scratch/2DIY/Snap!	We are musicians Producing digital music Creativity JamStudio/GarageBand/Audacity/LMMS	We are authors Creating a story Communication/Collaboration	We are toy designers Prototyping an interactive toy Computational thinking Arduino/Lego WeDo/Scratch	We are meteorologists Presenting the weather Productivity Excel/Google Drive/PowerPoint/IWB Software	We are HTML editors Editing and writing HTML Computer networks Brackets/Notepad/Kompozer
Key Vocabulary	debug input interface output program prototype repetition variable	audio composition copyright digital instruments pitch sample sequencing software	edit audience copyright text image sound entertain E-Safety	algorithm debug input interactive output pitch prototype simulation	chart data-logging forecast graph measurement prediction spreadsheet temperature	code HTML HTTP (hyper text transfer protocol) hyperlink tag URL web page
	Agent Asha: Mission Shark Bytes by Sophie Deen	In the key of code by Aimee Lucido	Staying Safe Online Louie Stowell	The Person Controller David Baddiel & Jim Field	The Weather Girls by AKI Delphine Mach	Tek the Modern Cave Boy by Patrick McDonnell
Year 5	We are game developers Developing an interactive game Programming Scratch/2DIY/Snap!/Kodu	We are cryptographers Cracking codes Computational thinking Scratch/Snap!/Excel	We are artists Fusing geometry and art Creativity Scratch/Inkscape/Illustrator	We are web developers Creating a web page about cyber safety	We are bloggers Sharing experiences and opinions Communication/	We are architects Creating a virtual space Productivity SketchUp/Picasa Web

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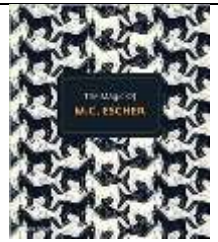
				Computer networks Google Sites/PBWorks/MediaWiki	Collaboration Wordpress/Blogger	
	Algorithm debugging code programming sprites storyboard repetition variables	binary code cypher decrypt encrypt Morse code password security semaphore	geometric landscape op art sprite symmetry tessellations	bias e-safety Page Rank revision history search engine Wiki	audience blog blogroll copyright dashboard hyperlinks podcast	3D animation gallery navigation screencast sculpture virtual
	Ant Clancy: Games Detective Ruth Morgan 	The Secret Breakers by H.L. Dennis 		Hacker Malorie Blackman 	Nerdy Bird Tweets by Aaron Reynolds 	
Year 6	We are movie makers Creating a WW2 documentary Computer networks App Inventor/App Shed/Codea/PhoneGap	We are programmers Programming an animation Programming Scratch	We are presenters Researching and presenting ideas on PowerPoint about the Ancient Greeks Communication/Collaboration PowerPoint	We are analysers Using spreadsheets Productivity Excel	We are coders Using Kodu Computational thinking Kodu	We are animators Using StopGo animation to create an ESafety video. Creativity StopGo App on iPad
	Storyboard documentary film production pre-production post-production copyright source shots scene	Algorithm debugging code programming sprites storyboard repetition variables broadcast	slides transition effects import hyperlinks copyright images sounds slideshow design	spreadsheet cell row column formula calculate format edit insert ascending	world smooth flatten raise program environment acceleration bump obstacle track	animation storyboard scene shoot audience E-safety upload convert copyright aspect ratio

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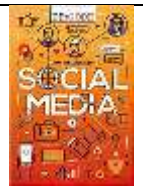
	script sound effects angle frame		template layouts schemes	descending sort graph	path node tool palette	cast frames per second exposure onion skin
			Who Let the God's Out by Maz Evans	The Technology Tail by Julia Cook		Dot.Common Sense by Ben Hubbard