Computing

	EYFS: Nursery	EYFS: Reception	Year 1	Year 2	End of Key Stage Expectations
Information Technology	Through weekly planned Computing/Technology Activities:	Through weekly planned Computing/Technology Activities:	I I can use a mouse, finger etc to select & move items on the screen, assembling or matching objects Cyberwalk (Autumn); Robot Words (Autumn)	I can use some software to create / assemble digital content for clear purpose, (could be text, images, animation, graph, sound, etc.) Do you like my blog? (Autumn); Say no to graffiti! (Spring); Digiduck's dilemma (Spring)	use technology purposefully to create, organise, store, manipulate and retrieve
	toys	computer.	I can take a digital picture or video clip, or record a sound, as part of a task. I I can sort objects Design a plate (Summer)	I can make straight-forward edits of their digital work (text, image, sound etc.,) using simple editing tools, to both correct or improve it.	digital content
	pressing parts or lifting flaps to achieve effects (Autumn)	computer software. (Autumn)	I can use some software to create / assemble digital content for clear purpose, (could be text, images, animation, graph, sound, etc.) Sharing my Iceberg work (Autumn); Robot Words (Autumn); Cyberwalk	I can navigate their way within some straight-forward digital content, such as selected history content, to find some specific information. Minibeasties (Spring)	recognise common uses of information technology beyond school
	Knows how to operate simple equipment,	I can recognise that a range of technology is used in places such as homes and schools.	(Autumn); I I can sort objects (Spring); Design a plate (Summer) I can make straight-forward edits of their digital work (text, image, sound etc.,) using simple editing tools, to both correct or improve it.	I can create and amend a (multi-media) resource for a clear purpose, starting to show a sense of the 'audience'. Say no to graffiti! (Spring)	
	I can show interest in real objects such as cameras or mobile phones. (Spring)	I can select and use technology for particular purposes. (Spring)	Design a plate (Summer) I can access a resource and then find answers to straight-forward questions.	I can create & store some data, (simple data file), and then find answers to straight-forward questions.	
		I am beginning to find out about and use a	I can sort objects (Spring) I can recognise and talk about some common uses of IT in the world around	How do you get to school safely? (Autumn); Minibeasties (Spring)	
	can be retrieved from computers. (Summer)	I am beginning to select appropriate applications that support an identified need	Giving instructions to make toast (Summer) I can save and retrieve some work (and print if appropriate to task). All	I can save and retrieve work (and print if appropriate to task). Say no to graffiti (Spring); and developed across units	
Computer		Summer)	I can give simple instructions to control a device, like a 'floor' robot, or on-	I can give a set of simple instructions to program (control) a device, like a 'floor' robot, or on-screen object	understand what
			What is an algorithm? (Spring); I I can code (Summer)	How do you get to school safely? (Autumn); Demolition robot (Autumn); What's wrong with this game? (Spring); I I can debug! (Summer)	are implemented as programs on digital devices; and that
			I can use trial and error to produce an accurate set of simple instructions, to control a floor 'robot' or on-screen object. Fly and dig carefully (Spring); What's an algorithm? (Spring); Giving instructions to make toast (Summer); I can code (Summer)	I can use trial and error to produce an accurate set of 'instructions' to control a floor 'robot' or on-screen object; refine (de-bug) and improve / make changes. Demolition robot (Autumn); I I can debug! (Summer); Instructions and recipes (Summer)	programs execute by following precise and unambiguous instructions
			I can name some digital devices that need precise instructions (algorithms) to work / be controlled. What's an algorithm? (Spring); Giving instructions to make toast (Summer)	I can talk about some electronic devices and understands that they need precise instructions (algorithms) to work / be programmed (controlled). How does that work? (Autumn)	create and debug simple programs
			Understands that software may represent a fantasy situation and I can make sensible (logical) decisions/choices when 'playing' a straight-forward 'game'. Fly and dig carefully (Spring); I I can code (Spring); Design a plate (Summer)	Demonstrates logical 'trial and error' when using a computer simulation or game, and predicts the consequences of decisions/choices made. How does that work? (Autumn); What's wrong with this game? (Spring); I I can debug! (Summer)	use logical reasoning to predict the behaviour of simple programs
			Understands some basic computing terms and concepts, such as algorithm, program, sequence, etc. What is an algorithm? (Spring)	Understands some basic computing terms and concepts, such as: (school) network, algorithm, program, debug, editing, website, etc. Words, words, words (Summer); Demolition robot (Autumn); Instructions and recipes (Summer); How does that work? (Autumn); Instructions and recipes (Summer)	
Digital Literacy			Knows about the Internet and beginning to understand some key, age appropriate, safety 'rules'. Sharing my iceberg work (Autumn); Smartie the penguin (Autumn); How does my garden grow? (Autumn); Internet scenario card	I can talk about key online safety 'rules' and knows where to go / report if a problem. Digiducks dilemma (Spring); Internet scenario card activity (Spring); Finding Out about(Mary Secole) (Summer); Follow that Footprint (Summer)	use technology safely and respectfully, keeping personal information private; identify where to
			I can share some information with others, (such as via school network, in school MLE, via a 'closed' blog). Sharing my iceberg work (Autumn)	system or blog), understanding need to be respectful and safe. Do you like my blog? (Autumn); Let's e mail granma (Autumn); Minibeasties (Spring)	when they have concerns about content or contact
			I can find some straight-forward information from a 'safe', selected online resource. How does my garden grow? (Autumn)	I can find some straight-forward information from (selected) website resource(s) and knows not all websites 'good to use'. Finding Out about (Mary Seacole) (Summer)	online technologies.

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Early Years and Key Stage 1

Computing

	Y	Marca A	Mana F	No. and	Fund of Kass Change Free stations
	Year 3	Year 4	Year 5	Year 6	End of Key Stage Expectations
Information	I can use some software to create / assemble digital	I can use software to create and combine content (be it text,	I can use software effectively to create, design and	I can use software effectively to create, design and	use search technologies effectively,
Technology	content for clear purpose, (could be text, images,	pictures/Images, graphs, animation, podcast etc.,) for	manipulate for purposeful outcomes, such as DT, art	manipulate for purposeful outcomes, such as DT, art or	appreciate how results are selected and
	animation, graph, sound, etc.) Journey of an email	meaningful purpose(s). Internet search and presentation	or music projects. Building a sustainable house	music projects. Simulating environments (Autumn); Do	ranked, and be discerning in evaluating
	(Autumn); Safe searching with Dongle (Autumn); I I	(Autumn);	(Autumn); Simply delicious (Autumn); I I can make an	you agree? (Spring); Party time (Summer)	digital content
	can make my own game (Spring); I I can make an	Let's email (Autumn); What's a spreadsheet? (Autumn);	animation 2 (Spring); I can you finish my story?		coloct use and combine a variety of coftware
	animation (Spring); Creating a tessellation (Spring);	Creating an alien landscape (Spring); I I can rap! (Summer)	(Summer)	I can combine resources from different sources into a	(including interrupt combine a variety of software
	See and hear my mix (Summer); Do you like my			digital presentation, evaluate it, and show clearly	(including internet services) on a range of
	presentation? (Summer): Finding out about keeping	I can also edit and amend their digital work (text. image.	I can combine resources from different sources into a	intended purpose and 'audience' Do you agree? (Spring)	digital devices to design and create a range
	healthy (Summer)	sound etc) using	digital presentation, showing clear sense of intended		of programs, systems and content that
		simple editing tools to both correct and improve it. Internet	purpose and 'audience' Design a poster (Autumn):	I can be discerning and find valid information using	accomplish given goals, including collecting,
	I can make straight-forward edits of their digital work	search and presentation (Autumn): My exciting world		sensible key words /search terms, from a range of online	analysing, evaluating and presenting data
	(toyt image cound atc.) using simple editing tools to	landmarks (Spring): Creating an align landscape (Spring): L	I can find specific and valid information (i.e. be	web content as fits the tack How can we trust the	and information
	heth correct and improve it LL can make an animation	con ron! (Summor)	discorning) using consible key words (coarch terms	Internet2 (Spring)	
	(Crying). Creating a tassellation (Crying). See and been	can rap: (Summer)	from (aslasted) and a such content of fits the	internet? (Spring)	
	(spring); Creating a tessellation (spring); see and near		from (selected) online web content, as fits the		
	my mix (Summer)	I can create and amend a multi-media resource that shows a	task. Searching searching (Autumn) ;Stop! Check!	I can (collect), analyse, evaluate and draw conclusions	
		sense of 'audience'. Internet search and presentation	(Spring)	from data, such as through survey, database or	
	I can create and amend a (multi-media) resource that	(Autumn); My exciting world landmarks! (Spring); I I can		spreadsheet, etc. Party time (Summer)	
	shows a sense of 'audience'. See and hear my mix	rap! (Summer)	I can (collect), analyse and draw conclusions from		
	(Summer)		data, (such as through data logging or a survey or a	I can save and retrieve work from various electronic	
		I can navigate their way within range of (selected) online	prepared database or through manipulating	folders on network	
	I can navigate their way within some straight-forward	content, to find specific information. Weather data (Spring);	a spreadsheet, etc). Simply delicious (Autumn)	(and controlled online environments where relevant).	
	digital content, such as selected history content, to	My exciting world landmarks! (Spring)		developed across all units	
	find some specific information. Would I lie to you?		I can save and retrieve work from various electronic	·····	
	(Spring): Finding out about healthy habits (Summer)	I can include some information / content from an online	folders on network (and controlled online		
	(spring), rinding out about nearing habits (summer)	resource within a 'presentation' Internet search and	environments where relevant) developed across all		
	I can create & store come data (simple data file) and	procentation (Autumn): My exciting world landmarkel	unite		
	then find ensures to statisht forward exections	(Coving)	units		
	then find answers to straight-forward questions.	(Spring)			
	Finding out about healthy habits (Summer)				
		I can use a data file to find answers to straight-forward			
	I can recognise and talk about some common uses of	questions, (such as through data logging or a survey or a			
	ICT in the world around them. Finding out about	prepared database or a simple spreadsheet, etc). What's a			
	healthy habits (Summer); Words words words	spreadsheet? (Autumn) Weather data (Spring)			
	(Summer); and developed across units				
		I can save and retrieve work from electronic folders (and			
	I can save and retrieve work from electronic folders	print if appropriate to task). Internet search and			
	(and print if appropriate to task). Safe searching with	presentation (Autumn): I I can rap! (Summer): developed			
	Dongle (Autumn): See and hear my mix (Summer)	across units			
Computer	Demonstrates logical 'trial and error' when using a	Demonstrates logical choices and prediction when using a	I can 'test', amend / edit a simple computer 'game' or	I can test, debug and edit a program that accomplishes a	design, write and debug programs that
Science	computer simulation 'model' or game, and predicts	computer simulation 'model' or game and I can make simple	model or simulation to solve a problem Building a	given goal (simple computer 'game' or model or	accomplish specific goals including
	some consequences of decisions/choices made I can	edits to solve a problem Annie hunt (Autumn): I I can	sustainable house (Autumn): Simply delicious	simulation) to solve a problem Simulating	controlling or simulating physical systems:
	your robot made shapes (Autumn): Create a duck and	create a game using i2code (Summer): Creating a Game in	(Autumn): Logo Block of flats (Spring): Starting with	environments (Autumn): Eun with Scratch (Autumn):	solve problems by decomposing them into
	fly it! (Spring): I I can make my own same (Spring)	2DIV (Summer)	Coratch (Summar)	Darty time (Summar), Logo Dattorne (Summar)	solve problems by decomposing them into
	ny it! (Spring); i i can make my own game (Spring)	zbr (Summer)	Scratch (Summer);	Party time (Summer); Logo Patterns (Summer)	sinaller parts
	Leave and the second second of strends to show the	the second second shares a second s	l l'-h	Loss success Q develop and success have been in a data sector.	use sequence, selection, and repetition in
	i can produce an accurate set of simple instructions	i can produce, debug and edit an accurate sequence of	i can create an accurate program to accomplish a given	i can create & develop programs, by planning, debugging	programs; work with variables and various
	(code), to program (control) an on-screen object (or	instructions, include use of repeat, to control on-screen	goal, including the use of repetition (loops), selection	and applying programming skills of repetition (loops),	forms of input and output
	floor 'robot'), using trial and error to refine (de-bug). I	objects. Apple nunt (Autumn); Logo turtle mania (Spring); I	(IF/ELSE) and variables. Logo Block of flats	selection (IF/ELSE) and variables, to accomplish specific	
	can your robot make shapes? (Autumn); I I can make	I can create a game using j2code (Summer); Creating a	(Spring);Starting with Scratch (Summer)	goals. Simulating environments (Autumn);	use logical reasoning to explain how some
	my own game (Spring)	Game in 2DIY (Summer)		Fun with scratch (Autumn); Logo patterns (Summer);	simple algorithms work and to detect and
			I can use logical reasoning to deconstruct programs,		correct errors in algorithms and programs
	I can also talk about how the sequence of events in	I can plan and create a program using decomposition;	evaluate their effectiveness and make them more	I can use logical reasoning to deconstruct programs,	
	some simple instructions (algorithms) or code are	includes the use of selection (IF/ELSE) and/or variables. Logo	challenging and / or 'elegant' / efficient. Logo Block of	evaluate their effectiveness and make them more	understand computer networks including the
	'working'. I can your robot make shapes? (Autumn); I I	turtle mania (Spring); I I can create a game using j2code	flats (Spring); Starting with Scratch (Summer)	challenging and / or 'elegant' / efficient. Fun with	internet; how they I can provide multiple
	can make my own game (Spring): I I can use block	(Summer): Creating a Game in 2DIY (Summer)		scratch (Autumn): Simulating environments (Autumn):	services, such as the world wide web; and
	coding (Summer): How does that work? (Summer)		I can use different types of input options and output	Logo patterns (Summer)	the opportunities they offer for
		I can talk about different types of input options e.g. motion	options such as through sensing and control 'kits'	· · · · · · · · · · · · · · · · · · ·	communication and collaboration
	I can talk about some digital devices beyond school	/touch micronhone data logging sensor: and output options	and/or software to solve a problem Logo Riock of	I can use different types of input options and output	
	that need nrecise instructions (algorithms) to work /	e g switch sneakers screen etc	flats (Snring): Starting with Scratch (Summer)	ontions such as through sensing and control 'kits' and/or	
	he programmed (controlled) lourney of an amail	Weather data (Snring)		coftware to colve a problem Cimulating environmente	
	(Autumn): How doos that work? (Comment)	wearner uara (shi ilig)	I have an understanding of computer naturalis (Is)	Software to solve a problem. Simulating environments	
	(Autumn); How does that work? (Summer)		internet convices and Matheway Computer networks (local,	(Autumni); Fun with scratch (Autumn);	
		i can develop and use a wider computing 'vocabulary'	internet services and www). Searching searching	Logo patterns (Summer)	
	I know some relevant computing terms such as	relevant to work, such as de-bug, Apps, data logging, search	(Autumn)		
	computer network, Internet, algorithm, program,	engine, spam, Wiki, etc. Words words words (Spring); Logo		I have an understanding of computer networks (local,	
	World Wide Web, website, etc. Journey of an email	Turtle Mania (Spring);	I can develop and use a wider computing 'vocabulary'	internet services and WWW).	

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Key Stage 2

St Vincent's Catholic Primary School Computing Progression Map

Together Through Christ We Grow and Learn

	(Autumn); Words words words (Summer); How does that work? (Summer);	I can create a game with j2code (Summer); and developed across all units	in context of task, such as search engine, URL, variable, validate, digital footprint, spam, Wiki, etc. Searching, searching (Spring); Starting with Scratch (Summer); Words words words (Summer) and developed across all units	What is the Internet? (Autumn); How I can we trust the Internet (Spring) I can develop and use a wider computing 'vocabulary' in context of task, such as search engine, URL, HTML, https, variable, validate, digital footprint, etc Words words words (Autumn); What is the Internet? (Autumn)	
Digital Literacy	 I can talk about key online safety 'rules' and knows where to go / report if a problem. Safe searching with Dongle (Autumn); Journey of an email (Autumn); I I can make my own game (Spring) I can create and share some information online (such as in school MLE, email/blog), understanding need to be respectful and safe. Do you like my presentation? (Summer); Internet Scenario card (Autumn); Journey of an email (Autumn); I can find some straight-forward information from (selected) website resource(s) and knows not all websites 'good to use'. Would I lie to you? (Spring) 	I can talk about key online safety 'rules', knows what may be unacceptable behaviour, and knows where to go / report if a problem. Apple hunt (Autumn); Internet scenario card activity (Autumn); Let's email (Autumn) I can create and share some information online (such as school MLE, email / blog), demonstrating need to be respectful and safe. Internet search and presentation (Autumn); Let's email (Autumn) I can find straight-forward information from (selected) website resource(s) and knows sites I can contain, true or false facts, or opinion. Internet search and presentation (Autumn); My exciting world landmarks! (Spring)	 I can talk about key online safety 'rules', knows what may be unacceptable behaviour, and knows where to go / report if a problem. Internet scenario card activity (Autumn); Design a poster (Autumn); Tell me a joke (Spring) I can demonstrate 'web-savvy' awareness, from a range of given scenarios, including conduct, contact and content 'risks' and issues. Stop! Check! (Autumn); Internet scenario card activity (Autumn); Searching, searching (Spring); I I can make an animation 2 (Spring) I can communicate and collaborate online (such as in MLE blog/Wiki /forum), demonstrating respectful and safe behaviours. I can you finish my story? (Summer); Tell me a joke (Summer) I can understand some simple steps to 'validate' information found on the Web, such as clarity of search term, URL, links to and from, etc. Stop! Check! (Spring); Searching, searching (Spring) 	I can demonstrate 'web-savvy' awareness, from a range of given scenarios, including commercial, contact and content 'risks' and issues. What is the Internet? (Autumn); How I can we trust the Internet? (Spring); Internet scenario card activity (Spring); How fake is that? (Summer) I can discuss range of eSafety and eSecurity (privacy) issues and knows range of ways to report concerns or inappropriate behaviour. How I can we trust the Internet? (Spring); Internet scenario card activity (Spring); How fake is that? (Summer) I can communicate and collaborate online (such as in MLE blog/Wiki /forum), demonstrating respectful and safe behaviours. Do you agree? (Spring); How I can we trust the Internet (Spring); How I can we trust the Internet (Spring); How fake is that? (Summer) I can check the results of their WWW searches i.e. how useful, relevant, reasonable, valid and accurate the information is. How can we trust the Internet? (Spring); How fake is that? (Summer)	use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.