## The Piggott School: Charvil Primary



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan We live with love and compassion, seeking help in times of need

## **Curriculum Map: Computing Year 5**

	Autumn 1 Computing systems and networks – systems and searching	Autumn 2 Creating media – video production	Spring 1 Creating media – vector graphics	Spring 2 Data and information – Flat- file databases	Summer 1 Programming A – Selection in physical computing	Summer 2 Programming B – Selection in quizzes
Content	*Recognise that a	*explain the features	*identify that a	*explain that a	*explain that a	*explain that a
Declarative	system is a set of	of video as a visual	vector drawing	computer program	condition can only be	condition can only be
Knowledge 'I know'	interconnected parts	media format	comprises separate	can be used to	true of false	true of false
	which work together	*recognise which	objects	organise data	*relate that a count-	*explain that
	*Explain that	devices can and can't	*recognise that each	*explain that tools	controlled loop	selection can be used
	computers can be	record video	object is a drawing is	can be used to select	contains a condition	to branch the flow of
	connected together	*explain the purpose	in its own layer	data to answer	*compare a count-	a program a series of
	to form IT systems	of a story board	*recognise that	questions	controlled loop with	instructions as a
	*identify that data	*recognise that	vector images can be	*outline how	a condition-	sequence
	can be transferred	filming techniques	called without impact	ordering data allows	controlled loop	*recall that a series
	between IT systems	can be used to create	on quality	us to answer some	*explain that a	of instructions can be
	*recognise inputs,	different effects	*consider the impact	questions	condition-controlled	issued before they
	processes and	*recognise the need	of choices made	*outline how	loop will stop when a	are enacted
	outputs in large IT	to regularly review	*recognise that	operands can be	condition is met	*use logical
	systems	and reflect on a video	objects can be	used to filter	*explain that when a	reasoning to predict
	*explain why search	project	modified in groups	*outline how AND	condition is met, a	the outcome of a
	engines create	*explain the	*explain how	and OR can be used	loop will complete a	program
	indices	limitations of editing	alignment and size	to refine data	cycle before it stops	
	*explain the role of	video on a recording	guides can help	selection	*explain that	
	web-crawlers	device	create a more	*explain that	selection can be used	
			consistent drawing	computer programs	to branch the flow of	
				can be used to	a programme of a	
				compare data	program	
				visually		

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	*demonstrate that	*use different	*add an object to a	*choose different	*create a condition-	*choose a condition
	different search	camera angles	vector drawing	ways to view data	controlled loop	to use in a program
I I	terms produce	*use pan, tilt and	*select one object or	*ask question that	*use a condition in	*create a condition-
	different results	zoom	multiple objects	need more than one	an "ifthen"	controlled loop
	*evaluate the results	*identify features of	*reposition, modify,	attribute to answer	statement to start an	*use a condition in
	of search terms	a video recording	duplicate, group,	*choose which	action	an "ifthen"
		device or application	ungroup, delete	attribute and value to	*use selection to	statement to start an
		*combine filming	objects	search by to answer a	switch the program	action
		techniques for a	*combine options to	given question	flow in one of two	*use selection to
		given purpose	achieve the desired	(operands)	ways	switch program flow
		*determine what	effect	*choose which	*use a condition in	*use "ifthenelse"
		scenes will convey	*create a vector	attribute to sort data	an "ifthenelse"	to switch program
		your ideas	drawing for a given	by to answer a given	statement to produce	flow in one of two
		*decide what	purpose	question	given outcomes	ways
		changes I will make		*choose multiple		
		when editing		criteria to search		
		*choose to reshoot a		data to answer a		
		scene or improve		given question (AND		
		later through editing		and OR)		
		*decide what		*select an		
		changes I will make		appropriate graph to		
		when editing		visually compare		
		*use split, trim and		data		
		crop to edit video		*choose suitable		
				ways to present		
				information to other		
				people		
Vocabulary	System,	Visual media format,	Vector drawing,	Computer program,	Condition, true, false,	Condition, true, false,
l	interconnected,	video, camera angle,	object, delete,	data, attribute,	count-controlled	count-controlled
i	inputs, processes,	pan, tilt, zoom,	modify, duplicate,	search value,	loop, program,	loop, condition-
	outputs, search	storyboard, shooting,	reposition, group,	operands (question)	branch	controlled loop,
	engines, indices, web	editing, split, trim,	ungroup, layer,		"ifthenelse"	program flow,
I I	crawlers, targeted	crop	scaled, quality,		statements,	"ifthenelse"
	advertising, search	•	alignment		microcontroller	statements
I I	terms					
	How do we capture,	What devices can	How can I create a	What is a flat-file	What is selection in	How can we use
			vector drawing?	database? How can it	programming? What	algorithms to

	video? How can we	can we capture, edit	What different	be used to organise	is a microcontroller?	construct programs	
	take an idea from	and improve photos?	drawing tools can I	data? How can I use	How can conditions	in Scratch? How can	
	conception to	How can we identify	use to help create	a real-life data base	be used to control	we write programs	
	completion?	fake images?	images? How can I	to answer a question	the flow of actions?	that ask questions	
			layer objects?	and present my work		and use selection to	
				to others?		control the outcomes	
						based on answers	
						given?	
Assessment	Self-assessment in every lesson with success criteria for each lesson						
	Observations by teacher	er					
<b>Cross Curricular</b>	E-safety/digital	Internet safety: use	Art and Design:	Literacy: presentation	Individual liberty: pupils are given freedom to		
Links/Character	citizenship:	technology safely,	composition	skills	experiment with creating programs		
Education	understanding of	respectfully and			Individual liberty: Composition provides		
	digital footprint or	responsibly;			opportunity for indepe	endent choice	
	digital personality	recognise					
	and how this affects	acceptable/unaccept					
	the type of	able behaviour					
	information returned						
	to them						