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 4

	Autumn 1 Computing systems and networks – The	Autumn 2 Creating media – Audio editing	Spring 1 Creating media – Photo editing	Spring 2 Data and information - Data	Summer 1 Programming A – Repetition in shapes	Summer 2 Programming B – Repetition in games
	internet			logging		
Content	*describe how	*identify that sound	*identify that	*suggest questions	*know what repeat	*explain that you can
Declarative	networks connect to	can be recorded	computers can be	that can be answered	means	program a loop to
Knowledge 'I know'	other networks	*identify that an	used to play sounds	using a table of data	*identify everyday	stop after a specific
	*outline how	input device is	of different	*identify data that	tasks that include	number of times
	information can be	needed to record	instruments	can be logged over	repetition eg	*identify patterns in
	shared via the World	sound	*identify that the	time	brushing teeth	a sequence eg step 3
	Wide Web	*identify that output	same pattern can be	*identify that sensors	*explain that we can	times means the
	*recognise the World	devices are needed	represented in	are input devices	use a loop command	same as step, step,
	Wide Web as part of	to play audio	different ways	*recognise that a	in a program to	step
	the internet	*recognise that	*compare playing	sensor can be used	repeat instructions	*justify when to use
	*explain how the	recorded audio can	music on instruments	as an input device for	*identify patterns in	a loop and when not
	internet enables us	be stored on a	with making music	data collection	a sequence	to
	to view the world	computer	on a computer	*explain that a data	*identify a loop	*explain the
	wide web	*recognise that audio		logger captures 'data	within a program	importance of
	*know the pros and	can be edited		points' from sensors	*explain that in	instruction order in a
	cons of the world	*recognise that		over time	programming there	loop
	wide web	sound can be			are indefinite loops	*recognise that not
		represented visually			and count-controlled	all tools enable more
		as a waveform			loops	than one process to
		*recognise that audio			*explain that an	be run at once
		can be layered			indefinite loop will	
					run until the program	
					is stopped	

Skills Procedural	*evaluate the	*record sounds using	*experiment with	*use a digital device	*list an everyday task	*plan a program that
Knowledge 'I know	reliability of content	a computer	sounds and musical	to collect data	as a set of	includes appropriate
how to'	on the world wide	*play recorded audio	patterns on a	automatically	instructions including	loops to produce a
	web	Import audio into a	computer	*choose how often	repetition	given outcome
	<u></u>	project	*use a computer to	to automatically	*use an indefinite	*recognise tools that
		*delete a section of	create a musical	collect data samples	loop to produce a	enable more than
		audio	pattern	*use a set of logged	given outcome	one process to be
		*change the volume	*use a computer to	data to find	*use a count-	run at the same time
		of tracks in a project	compose a rhythm	information	controlled loop to	(concurrency)
			and a melody on a	*use a computer	produce a given	*create two or more
			given theme	program to sort data	outcome	sequences that run
			*use a computer to	by one attribute		at the same time
			play some music in	*export information		
			different ways (ie	in different formats		
			vary tempo)			
			*evaluate and			
			improve a musical			
			composition			
Vocabulary	internet, network,	audio, microphone,	image, edit, digital,	data, table, layout,	Logo (programming	Scratch,
	router, security,	speaker,	crop, rotate, undo,	input device, sensor,	environment),	programming, sprite,
	switch, server,	headphones, input	save, adjustments,	logger, logging, data	program, turtle,	blocks, code, loop,
	wireless access point	device, output	effects, colours, hue,	point, interval,	commands, code	repeat, value, infinite
	(WAP), website, web	device, sound,	saturation, sepia,	analyse, dataset,	snippet, algorithm,	loop, count-
	page, web address,	podcast, edit, trim,	vignette, image,	import, export,	design, debug,	controlled loop,
	routing, web	align, layer, import,	retouch, clone,	logged, collection,	pattern, repeat,	costume, repetition,
	browser, World Wide	record, playback,	select, combine,	review, conclusion.	repetition, count-	forever, animate,
	Web, content, links,	selection, load, save,	made up, real,		controlled loop,	event block,
	files, use, download,	export, MP3,	composite, cut, copy,		value, trace,	duplicate, modify,
	sharing, ownership,	evaluate, feedback.	paste, alter,		decompose,	design, algorithm,
	permission,		background,		procedure.	debug, refine,
	information,		foreground, zoom,			evaluate.
	accurate, honest,		undo, font.			
Ka O sati	content, adverts					
Key Questions	What is the internet?	What devices can	What are input and	How and why is data	How do we create	What is repetition in
	How can we use the	capture photos? How	output devices?	collected over time?	programs by	programming? What
	World Wide Web	can we capture, edit	What copyright	How can sensors be	planning, modifying	are the similarities
	safely? How do we	and improve photos?	implications are	used to monitor the	and testing	between Scratch and

	know if the online content is honest, accurate and reliable?	How can we identify fake images?	there when duplicating the work of others? How can we make a podcast?	environment? How can we analyse data collected over time?	commands to create shapes and patterns? How do we incorporate repetition and include loops?	Logo? What is the difference between infinite and count- controlled loops?	
Assessment	Self-assessment in every lesson with success criteria for each lesson Observations by teacher						
Cross Curricular Links/Character Education	PSHE: evaluate content for honesty and accuracy Managing online information: explain what is meant by fake news	Art and Design	Science – find patterns between the volume of a sound and the strength of the vibrations that produced it Digital citizenship – copyright and ownership	Science: making systematic observations using data loggers	Art: repeating patterns – William Morris Year 1 unit	Individual liberty: pupils are given freedom to experiment with creating programs Individual liberty: Composition provides opportunity for independent choice	