

St Buryan Academy Coverage and Progression – Concept Map









Computing

What the National Curriculum says...

Key Stage 1	Key Stage 2
Pupils should be taught:	Pupils should be taught to:
-understand what algorithms are; how they are implemented as	-design, write and debug programs that accomplish specific goals,
programs on digital devices; and that programs execute by following	including controlling or simulating physical systems; solve problems by
precise and unambiguous instructions	decomposing them into smaller parts
-create and debug simple programs	-use sequence, selection, and repetition in programs; work with
-use logical reasoning to predict the behaviour of simple programs	variables and various forms of input and output
-use technology purposefully to create, organise, store, manipulate and	-use logical reasoning to explain how some simple algorithms work
retrieve digital content	and to detect and correct errors in algorithms and programs
-recognise common uses of information technology beyond school	-understand computer networks including the internet; how they can
-use technology safely and respectfully, keeping personal information	provide multiple services, such as the world wide web; and the
private; identify where to go for help and support when they have	opportunities they offer for communication and collaboration
concerns about content or contact on the internet or other online	-use search technologies effectively, appreciate how results are selected
technologies	and ranked, and be discerning in evaluating digital content
	-select, use and combine a variety of software (including internet
	services) on a range of digital devices to design and create a range of
	programs, systems and content that accomplish given goals, including
	collecting, analysing, evaluating and presenting data and information
	-use technology safely, respectfully and responsibly; recognise
	acceptable/unacceptable behaviour; identify a range of ways to report
	concerns about content and contact



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We aspire to create children highly literate in Computing and to fulfil the characteristics set out in our 'Characteristics of a Computer Programmer at St Buryan Academy' document.

Our curriculum, based upon Mr P's ICT D.A.R.E.S allows for clear progression and development of knowledge and skills year-to-year. We adapt this to suit the needs of our children and our school environment.

Our Computing Key Concepts allow children to identify knowledge and build on this with any new learning. This makes their recollection of knowledge clear and transferable.



















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St Buryan Academy Coverage an		CREATIVITY CONFIDENCE COLLABORATION	
Key Concept	EYFS/Year 1	Year 2/3	Year 4/5/6
	-Digital literacy and E- safety	-Digital literacy and E- safety	-Digital literacy and E- safety
Online safety	-To be aware of, and contribute to Computing rules	-To understand the risks of communicating online with others and what we can do to stay safe	-To recognise different forms of online bullying and various actions to take to prevent it; then to communicate this with others digitally -To understand the risks of being active online and how to take precautions to stay safe
	-Animating characters -To create an animation	-To create animations of faces to speak	-To code a simple animation or game
Programming	with more than once scene	-To improve stop motion clips	-To create video interviews with transitions -To create different types of animations to explain learning
			-To use Scratch to code a short animated story

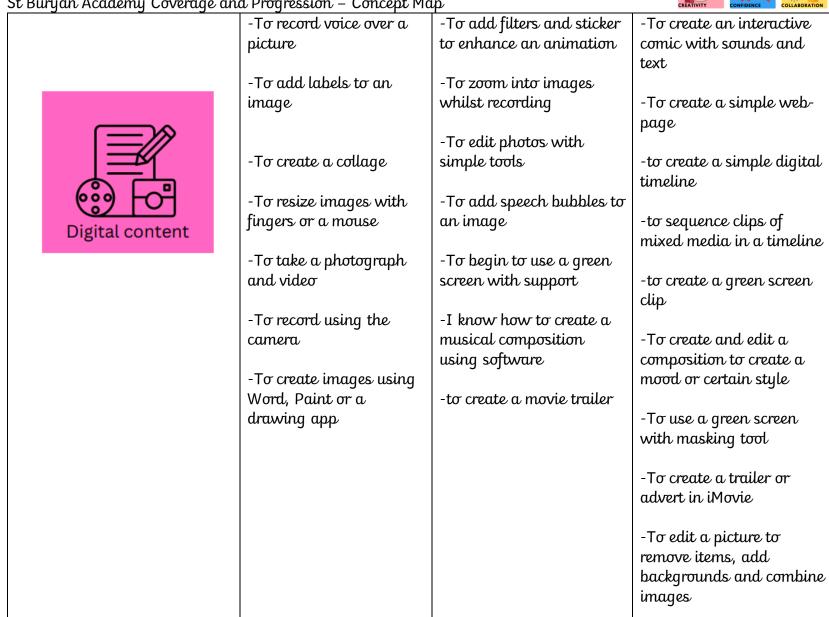








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St Buryan Academy Coverage an	d Progression – Concept Ma	ւթ	CREATIVITY CONFIDENCE COLLABORATION IN
			-To evaluate and discuss
			images explaining the
			effects filters have to
			enhance media
	-To play touch screen	-To use index fingers on	-To edit text and images
	games and explain how	keyboard home keys; to	in order to make a
	to make elements move	use both hands when	document more engaging
		typing	
	-Using the mouse and		-To create data handling
4.34	keyboards in play	-To sort images or text	activity with images and
		into categories	text
	-To type letters with		
	confidence on both	-To collect data on a topic	-To input simple data into
Techinical purpose	tablets and with a		a spreadsheet
	keyboard	-To create a simple spider	
		diagram	-To confidently choose the
	-To dictate short		best application to
	sentences into a digital	-I know how to sequence	showcase learning
	device	pictures to show	
		understanding	-To format text to suit a
	-To identify charts and		purpose
	sort objects	-To add images and text	
		with copy and paste as	-To publish documents
	-To present simple data	well as inserting shapes	online for an intended
			audience
	-To use the space bar	-To sort objects into a	
	and use caps lock for	range of charts (Venn	-To write a spreadsheet
	capital letters	diagrams, bar charts etc.)	formula to solve a maths
			problem
		-To use copy and paste to	
		organise texts	











uryan Academy Coverage ai			-To evaluate content to
			improve
	-To scan QR codes	-To explore an interactive	-To create an interactive
	-To explore 360 images	360 image	VR experience
	, a supresse surveyed		-To create an interactive
			poster
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Online research			