Stanley Primary School Computing Curriculum map 2022-2023

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Sum: Learning Together			
Whole	<u>/(d(diffini i</u>			evolve using following					
school	Self-image and identity								
0011001		Online relationships							
			Online re	•					
	Online bullying								
			Managing onli						
			Health, well-bei	ng and lifestyle					
			Privacy an	nd security					
			Copywrite an	nd ownership					
Reception	Looking at patterns i	n practical mathematica	al activities. Copying,	continuing and creatir	ng patterns using both	concrete resources			
	and pictorial represe								
		ough continuous provision	-			that they can adapt			
		and explain why. Make	•	, ,	•				
	5	technological toys inclu	•	e control cars, walkie f	alkies and recording d	evices. Introduce			
		cameras, ipads and inte		1		1			
Year 1	Technology	Digital painting	_Moving a robot	Grouping Data	Digital Writing	Introduction to			
	around us	To describe what	To explain what a	To label objects	To use a computer	animation			
	To identify	different freehand	given command	To identify that	to write	To choose a			
	technology	tools do	will do	objects can be	To add and remove	command for a			
	To identify a	To use the shape	To act out a given	counted	text on a computer	given purpose			
	computer and its	tool and the line tools	word To combine	To describe objects	To identify that the look of text can be	To show that a			
	main parts To use a mouse in	To make careful	forwards and	in different ways To count objects	changed on a	series of commands can be			
	different ways	choices when	backwards	with the same	computer	joined together			
	To use a keyboard	painting a digital	commands to	properties	To make careful	To identify the			
	to type on a	picture	make a sequence	To compare groups	choices when	effect of changing			
	computer	To explain why I	To combine four	of objects	changing text	a value			
	To use a keyboard	chose the tools I	direction	To answer	To explain why I	To explain that			
	to edit text	used	commands to	questions about	used the tools I	each sprite has its			
	To create rules for	To use a computer	make sequences	groups of objects	chose	own instructions			
	using technology	on my own to paint	To plan a simple			To design the			
	responsibly	a picture	program			parts of a project			

Year 2	IT around us To recognise the uses and features of IT To identify the uses of IT in the school To identify IT beyond school To explain how IT helps us To explain how to use IT safely To recognise that choices are made when using IT	To compare painting a picture on a computer and on paper Digital photography To use a digital device to take a photograph To make choices when taking a photograph To describe what makes a good photograph To decide how photographs can be improved To use tools to change an image To recognise that photos can be changed	To find out more than one solution to a problem An introduction to quizzes To explain that a sequence of commands has a start To explain that a sequence of commands has an outcome To create a program using a given design To change a given design To create a program using my own design To decide how my project can be improved	Pictograms To recognise that we can count and compare objects using tally charts To recognise that objects can be represented as pictures To create a pictogram To select objects by attributes and make comparisons To recognise that people can be described by attributes To explain that we can present information using a computer	To compare typing on a computer to writing on paper Making music To say how music can make us feel To identify that there are patterns in music To show how music is made from a series of notes To create music for a purpose To review and refine out computer work	To use my algorithm to create a program Robot algorithms To describe a series of instructions as a sequence To explain what happens when we change the order of instructions To use logical reasoning to predict the outcome of a program (series of commands) To explain that programming projects can have code and artwork To design an algorithm To create and
			improved	computer		algorithm To create and debug a program that I have written
Year 3	Connecting	Animation	Sequence in	Branching	Desktop	Events and
	computers	To explain that an	music	databases	publishing	actions
	To explain how	animation is a	To explore a new	To create	To recognise how	To explain how a
	digital devices	sequence of	programming	questions with	text and images	sprite moves in an
	function	drawings or	environment	yes/no answers	convey information	existing project
	To identify input	photographs		To identify the		To create a
	and output devices			object attributes		program to move

	To recognise how	To relate animated	To identify that	needed to collect	To recognise that	a sprite in four
	digital devices can	movement with a	commands have	relevant data	text and layout can	directions
	change the way we	sequence of images	an outcome	To create a	be edited	To adapt a
	work	To plan an	To explain that a	branching	To choose	program to a new
	To explain how a	animation	program has a	database	appropriate page	context
		To identify the need	start			
	computer network can be used to	to work consistently		To explain why it is	settings To add content to a	To develop my
			To recognise that a	helpful for a		program by
	share information	and carefully	sequence of	database to be	desktop publishing	adding features
	To explore how	To review and	commands can	well structured	publication	To identify and fix
	digital devices can	improve an	have an order	To identify objects	To consider how	bugs in a program
	be connected	animation	To change the	using a branching	different layouts can	To design and
	To recognise the	To evaluate the	appearance of my	database	suit different	create a
	physical	impact of adding	project	To compare the	purposes	maze-based
	components of a	other media to an	To create a project	information shown	To consider the	challenge
	network	animation	from a task	in a pictogram with	benefits of desktop	
			description	a branching	publishing	
				database		
Year 4	The internet	Audio editing	Repetition in	Data logging	Photo editing	Repetition in
	To describe how	To identify that	shapes	To explain that	To explain that	games
	networks physically	sound can be	To identify that	data gathered over	digital images can	To develop the
	connect to other	digitally recorded	accuracy in	time can be used	be changed	use of
	networks	To use a digital	programming is	to answer	To change the	count-controlled
	To recognise how	device to record	important	questions	composition of an	loops in a different
	networked devices	sound	To create a	To use a digital	image	programming
	make up the	To explain that a	program in a	device to collect	To describe how	environment
	internet	digital recording is	text-based	data automatically	images can be	To explain that in
	To outline ho	stored as a file	language	To explain that a	changed for different	programming
	websites can be	To explain that audio	To explain what	data logger	uses	there are infinite
	shared via the	can be changed	'repeat' means	collects 'data	To make good	loops and count
	World Wide Web	through editing	To modify a	points' from	choices when	controlled loops
	(WWW)	To show that	count-controlled	sensors over time	selecting different	To develop a
	To describe how	different types of	loop to produce a	To use data	tools	design that
	content can be	audio can be	given outcome	collected over a	To recognise that	includes two or
	added and	combined and	To decompose a	long duration to	not all images are	more loops which
	accessed on the	played together	task into small	find information	real	run at the same

	To recognise how the content of the WWW is created by people To evaluate the consequences of unreliable content	To evaluate editing choices made	To create a program that uses count-controlled loops to produce a given outcome	To identify the data needed to answer questions To use collected data to answer questions	To evaluate how changes can improve an image	To modify and infinite loop in a given program To design a project that includes repetition To create a project that includes repetition
Year 5	Sharing information	Video editing To explain what	Selection in physical	Flat-file databases	Vector drawing To identify that	Selection in quizzes
	To explain that	makes a video	computing	To use a form to	drawing tools can be	To explain how
	computers can be	effective	To control a simple	record information	used to produce	selection is used
	connected together	To identify digital	circuit connected	To compare paper	different outcomes	in computer
	to form systems	devices that can	to a computer	and	To create a vector	programs
	To recognise the	record video	To write a program	computer-based	drawing by	To relate that a
	role of computer	To capture video	that includes	databases	combining shapes	conditional
	systems in our lives	using a range of	count-controlled	To outline how	To use tools to	statement
	To recognise how	techniques	loops	grouping and then	achieve a desired	connects a
	information is	To create a	To explain that a	sorting data allows	effect	condition to an
	transferred over the	storyboard	loop can stop	us the answer	To recognise that	outcome
	internet	To identify that video	when a condition is	questions	vector drawings	To explain how selection directs
	To explain how sharing information	can be improved through reshooting	met To explain that a	To explain that tools can be used	consist of layers To group objects to	the flow of a
	online lets people in	and editing	loop can be used	to select specific	make them easier to	program
	different places	To consider that	to repeatedly	data	work with	To design a
	work together	impact of the	check whether a	To explain that	To evaluate my	program which
	To contribute to a	choices made when	condition has been	computer	vector drawing	uses selection
	shared project	making and sharing	met	programs can be		To evaluate my
	online	a video	To design a	used to compare		program
	To evaluate		physical project	data visually		
	different ways of		that includes	To apply my		
	working together		selection	knowledge of a		
	online		To create a	database to ask		
			program that	and answer		

			controls a physical	real-world		
			computing project	questions		
Year 6	Communication	Variables in games	Spreadsheets	Web page	3D modelling	Sensing
	To identify how to	To define a 'variable'	To identify	creation	To use a computer	To create a
	use a search	as something that is	questions which	To review an	to create and	program to run on
	engine	changeable	can be answered	existing website	manipulate 3D	a controllable
	To describe how	To explain why a	using data	and consider its	digital objects	device
	search engines	variable is used in a	To explain that	structure	To compare working	To explain that a
	select results	program	objects can be	To plan the	digitally with 2D and	selection can
	To explain how	To choose how to	described using	features of a web	3D graphics	control the flow of
	search results are	improve a game by	data	page	To construct a digital	a program
	ranked	using variables	To explain that	To consider the	3D model of a	To update a
	To recognise why	To design a project	formulas can be	ownership and	physical object	variable with a
	the order of results	that builds on a	used to produce	uses of images	To identify that	user input
	is important and to	given example	calculated data	(copyright)	physical objects can	To use a
	whom	To use my design to	To apply formulas	To recognise the	be broken down into	conditional
	To recognise how	create a project	to data, including	need to preview	a collection of 3D	statement to
	we communicate	To evaluate my	duplicating	pages	shapes	compare a
	using technology	project	To create a	To outline the need	To design a digital	variable to a value
	To evaluate		spreadsheet to	for a navigation	model by combining	To design a
	different methods of		plan an event	path	3D objects	project that uses
	online		To choose suitable	To recognise the	To develop and	inputs and outputs
	communication		ways to present	implications of	improve a digital 3D	on a controllable
			data	linking to content	model	device
				owned by other		To develop a
				people		program to use
						inputs and outputs
						on a controllable
						device