



EYFS; KS1; KS2	These are the minimum end of year expectations for our EYFS learners in relation to Understanding the World		This document shows how computing objectives are designed in a progressive way to ensure learners become more proficient users as they move through the school, securing and applying the computing mastery objectives. Each teacher should be aware of their own computing objectives, and of those which have come before.						
	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
otential hooks	and driving context								
nrichment			Media Suite Enrichment 1 half term	Media Suite Enrichment 1 half term	Media Suite Enrichment 1 half term	Media Suite Enrichment 1 half term	Media Suite Enrichment 1 half term	Media Suite Enrichmer 1 half term	
nline Safety	Learning Objectives: Su	pported using the Common Se	ense Media Digital Citizensh	in LIK Lesson Plans: https://	www.commonsense.org/ed	lucation/uk/digital-citizens	nin/primary		
		I can talk about good & bad choices in real life e.g. taking turns, saying kind things, helping others, telling an adult if something upsets you I can play appropriate games on the Internet I can talk about good and bad choices when using websites – being kind, telling a grown up if something upsets us & keeping ourselves safe by keeping information private	I can find a happy balance between my online and offline activities. I can identify how to say goodbye to technology when I don't want to use it. I can visit places safely online.	I can identify how we can be safe, responsible, and respectful online. I can identify why it is important to listen to my feelings when using technology. I can identify how we can stay safe when visiting a website or app.	 I can identify how we can be good digital citizens. I can identify why it is important that we have device-free moments in our lives. I can identify what kinds of information I should keep to myself when I use the internet. I can identify what information is OK to have in my digital footprint. I can identify why we are all part of an online community. I can identify what I should do if someone is mean to me online. I can give credit for other people's work. 	I can identify how digital citizens take responsibility for themselves, their communities, and their world. I can create a strong password to help protect my privacy. I can identify how what we post online affects our identify. I can identify what makes a strong online community. I can identify what I should do when someone uses mean or hurtful language on the internet. I can identify why people alter digital photos and videos.	I can identify what makes a healthy media choice. I can identify what information about us is OK to share online. I can identify how our online activity affects the digital footprints of ourselves and others. I can be positive and have fun while playing online games, and help others to do the same. I can identify what to do when I see cyberbullying. I can identify what rights and responsibilities I have as a creator.	I can identify what med balance means for me. I can identify what clickbait is, and how we can avoid it. I can identify how gend stereotypes shape our experiences online. I can identify how we keep online friendships safe. I can identify what cyberbullying is, and wh we can do to stop it. I can identify the important parts of an online news article.	



Computing Progression Mapping



	l ca	an help adults	Suggested technology:	Suggested technology:	Suggested technology:	Suggested technology:	Suggested technology:	Suggested technology:	
		erate equipment	Beebot / Scratch Jr	Beebot / Scratch Jr	Scratch	Logo / Probots /	Scratch / Tinkr Drones	Scratch / Microbit	
		ound the school,				Scratch			
		dependently	I can explain what a	I can describe a series	I can explore new		l can write a program	I can define a 'variable' as	
		perating simple	given command will do	of instructions as a	programming	I can identify that	that includes count-	something that is	
	equ	Juipment		sequence	environments	accuracy in	controlled loops	changeable and why they	
			I can combine forwards			programming is		are used	
		an use simple	and backwards	I can explain what	I can identity that	important	I can explain that a loop		
		ftware to make	commands to make a	happens when we	sprites are controlled		can stop when a	I can choose how to	
	thi	ings happen	sequence	change the order of	by the commands I	I can create a program	condition is met, e.g.	improve a game by using	
				instructions and	choose	in a text-based	number of times and	variables	
		an press buttons on a	I can combine four	identify the importance		language	repeatedly check.		
		oor robot and talk	direction commands to	of the start and	I can explain how a			I can design, create and	
	abo	out the movements	make sequences	outcome.	sprite moves in an	I can explain what	I can design a physical	evaluate a project that	
	.		Less the stift the stift	1	existing project	'repeat' means	project and create a	builds on a given example	
		an explore options	I can identify the effect	I can use logical	Lang and and the theory	Lange algebra and survey	controllable system	المتعاد المعرفة ومعرفة والمعرف	
		d make choices with	of changing a value	reasoning to predict the	I can recognise that a	I can design and create	which include selection	I can create and develop	
		ys, software and		outcome of a program	sequence of commands	a project that includes	Leen evelein hevv	a program which uses	
	we	ebsites	I can plan and design a simple program using	(series of commands)	has an order and explain the start of a	repetition	I can explain how selection directs the	inputs and outputs to run on a controllable	
			algorithms	I can explain that		I can modify a count-	flow of a program	device	
			algoriums	programming projects	program.	controlled loop to	now of a program	device	
			I can find more than	can have code and	l can create a program	produce a given	I can relate that a	I can explain that	
			one solution to a	artwork	to move a sprite in four	outcome	conditional statement	selection can control the	
			problem	artwork	directions	outcome	connects a condition to	flow of a program	
			problem	I can design an	unections	I can decompose a	an outcome	now of a program	
				algorithm	I can adapt and develop	program into parts	anoutcome	I can update a variable	
				algorithm	a program to a new	program into parts	I can design, create and	with a user input	
				l can create a program	context by adding	l can create a program	evaluate a program	with a user input	
				using a given design	features	that uses includes two	which uses selection	I can use an conditional	
				and improve this design		or more loops to		statement to compare a	
				and mprove the design	I can identify and fix	produce a given	I can control a device	variable to a value	
				I can create, debug and	bugs in a program	outcome	connected to a		
				improve a program that	2080 0 p. 08. 0		computer		
				I have written	I can change the	I can develop the use of	computer		
					appearance of my	loops in a different			
					project.	programming			
						environment			
					l can create a maze				
					based project from a	I can explain that in			
					task description.	programming there are			
					·	infinite loops and count			
						controlled loops			
						I can modify an infinite			
						loop in a given program			
Digital Literacy & Infor	mation Technology								
	Learning Objectives: Supported	ed using the NCCE Teach	Computing Lesson Plans:	xtracted NCCE Learn	ning Objectives				
	Learning Objectives: Supported using the NCCE Teach Computing Lesson Plans: Extracted NCCE Learning Objectives								



Computing Progression Mapping



Multimedia	Digital Media	Digital Painting	Digital Music	Desktop Publishing	Photo Editing	Vector Drawing	3D Modelling
	I can use a mouse to	I can use the shape tool	I can identify that there	I can recognise how	I can explain that digital	I can identify that	I can use a computer to
	rearrange objects and	and the line tools an	are patterns in music	text and images convey	images can be changed	drawing tools can be	create and manipulate
	pictures on a screen	explain why I used	using technology	information and	and describe why	used to produce	three-dimensional (3D)
		them	6 6,	recognise the benefits		different outcomes	digital objects
	I can recognise text,		I can describe how	of desktop publishing	I can change the		0,
	images and sound	I can make careful	music can be used, with		composition of an	I can create and	I can compare working
	when using technology	choices when painting a	technology, in different	I can recognise that text	image and evaluate	evaluate a vector	digitally with 2D and 3D
		digital picture	ways	and layout can be	improvements	drawing by using tools,	graphics
	l can use a camera or			edited to suit different		combining shapes,	0
	sound recorder to	I can use a computer on	I can show how music is	purposes	I can make good	recognising layers and	I can construct a digital
	collect photos or sound	my own to paint a	made, in a computer	p.a. p. 0000	choices when selecting	grouping objects to	3D model of a physical
	concer photos of sound	picture	program, from a series	I can add content to a	different tools	achieve a desired	object
	I can use paint	picture	of notes	desktop publishing		effect.	00/000
	programs to create	I can compare painting	ornotes	publication use	I can recognise that not	cheet	I can identify that
	pictures	a picture on a computer	I can use technology to	appropriate settings	all images are real	Video Editing	physical objects can be
	pictures	and on paper	create music for a	appropriate settings	an mages are rear	I can recognise video as	broken down into a
		and on paper	purpose and review it	Animation	Audio Editing	moving pictures, which	collection of 3D shapes
		Digital Writing	pulpose and review it	I can explain that	I can identify that	can include audio	conection of 3D shapes
		I can use a keyboard to	Digital Photography	animation is a sequence	sound can be digitally	can include addio	I can design and improve
		write edit and remove	I can identify what	of images	recorded, explaining	I can identify digital	a digital model by
		text on a computer	devices can be used to	or images	how it is stored as a file	devices that can record	combining 3D objects
		text on a computer		Lean plan graata	now it is stored as a file		combining 3D objects
		Lean identify that the	take photographs	I can plan, create,	Lean use a digital	video	Web Dage Creation
		I can identify that the		review and improve an	I can use a digital		Web Page Creation
		look of text can be	I can use a digital device to take a	animation	device to record sound	I can capture video	I can review an existing
		changed on a computer		Loop identify the wood		using a digital device,	website and consider its
			photograph	I can identify the need	I can explain that audio	improving it using	structure
		I can make careful	Leen describe whet	to work consistently	can be changed	reshooting and editing.	Loop along the features of
		choices when changing	I can describe what	and carefully	through editing		I can plan the features of
		text and explain why	makes a good		Loon combine different	I can recognise the	a web page outlining a
			photograph and how to	I can evaluate the	I can combine different	features of an effective	navigation path
		I can compare writing	improve them	impact of adding other	audio to be played	video	the second state with a
		on a computer with		media to an animation	together and evaluate	the second devices	I can consider the
		writing on paper	I can recognise that			I can consider the	ownership and use of
			images can be changed			impact of the choices	images (copyright)
			and change using tools			made when making and	recognising the
		Lange along with a sub-track of				sharing a video	implications of linking to
		I can describe objects in					content owned by other
		different ways					people
		Land and the second second second					1
		I can count objects with					I can recognise the need
		the same properties					to preview pages
		I can compare and					
		groups of objects					
		answer questions about groups of objects					



Computing Progression Mapping



Systems &	I can beg	gin to use a I	can identify	I can recognise the uses	I can explain how digital	I can describe how	I can explain that	I can identify how to use
Networks	keyboar	d t	technology	and features of information technology	devices function, identifying input and	networks physically connect to other	computers can be connected together to	a search engine
	interest	in ICT by using c	can identify a computer and its main	I can identify	output devices	networks and make up the internet	form systems	I can describe how search engines select results
	I can rec purpose technolo and at h I can und things I o to me ar shared v using tec	s or programs	parts l can use a mouse in different ways	information technology in the home and beyond I can explain how information technology benefits us I can recognise that choices are made when using information technology	I can recognise how digital devices can be connected and how this can change the way we work I can explain how a computer network can be used to share information identifying the physical components	I can outline how websites can be shared via the World Wide Web, how content can be added and accessed. I can recognise how the content of the WWW is created by people evaluating the consequences of unreliable content	I can recognise the role of computer systems in our lives I can recognise how information is transferred over the internet I can explain how sharing information online lets people in different places work together I can contribute to a shared project online evaluating different ways of working.	I can explain how search results are ranked, why this is important and to whom I can recognise and evaluate how we communicate using technology
Data	or sound I can use pictogra photos t	tion as photos d files I	can label objects can identify that objects can be counted	I can recognise that we can count and compare objects using tally charts I can recognise that objects can be represented as pictures and create a pictogram I can select objects by attribute and make comparisons I can recognise that people can be described by attributes I can explain that we can present information using a computer	I can create questions with yes/no answers I can create a branching database and explain the importance of a good structure I can identify objects using a branching database identifying the attributes needed to collect relevant data I can compare the information shown in a pictogram with a branching database	I can explain that data gathered over time can be used to answer questions I can use a digital device to collect data automatically and use this to answer questions I can explain that a data logger collects 'data points' from sensors over time	I can use a form to record information I can compare paper and computer-based databases I can apply my knowledge of a database to ask and answer real-world questions I can explain that tools can be used to select data to answer questions	I can identify questions which can be answered using data I can explain that objects can be described using data I can explain that formula can be used to produce calculated data I can apply formulas to data, including duplicating I can create a spreadsheet to plan an event and choose suitable ways to present the data