<u>Curriculum Progression – Computing</u>

	EYFS	<u>Year 1</u>	Year 2	Year 3	Year 4	Year 5	<u>Year 6</u>
<u>Coding</u>	Be able to switch devices on and off. Take a photo of a particular item/person. Capture QR codes <i>Expressive arts</i> Story writing through the use of multimedia tools. - Add clip art and their own images - Include their own voice recording and musical sounds - Playing their pages like a	Arrange code blocks to create a set of instructions Create a simple program using object and action code blocks Incorporate event blocks into a simple code Notice when code executes when a program is run Set the scene of a program Create a design plan for a simple program	Recognise common uses of technology outside of school Plan an algorithm that includes collision detection Create a program that uses a timer command Create a program that includes different object types Create a program that includes a button object Explain what debugging is and debug a simple program	Explain and use a flowchart to create a program Recognise and use 'after' and 'every' timers in coding Create a program that includes repeat commands Apply prior knowledge to code, test and debug their own program Design and code an interactive scene (2 lessons)	Apply prior knowledge to plan an algorithm to program Create a program that incorporates an IF statements Consider and use coordinates when coding Understand and use IF/ELSE statements in code Understand and use variables in code Code a playable game	Consider how to use simplified code to code more efficiently Simulate a physical system Recognise the need to start coding at a basic level of abstraction to remove superfluous details Use functions when coding to increase efficiency Set and change variable values appropriately Use strings to produce a range of outputs in their program	Plan and code a program which includes a timer and a score Debug based on errors that occur when running a program Create a program that uses multiple functions with the code arranged in tabs Be able to interpret flowcharts purposefully and create flowcharts for procedures Code programs that attribute variables to user input Design and code a text- based adventure game
<u>Digital Literacy</u>	book and listening to the sounds added. Understanding the world Use paint projects to explore different celebrations. - Purposeful selection of colours - Purposeful mark making. Begin to understand how to instruct using Bee Bots.	 upload a photo to a digital folder use the pen tool and text function use the voice note function upload a video to a digital folder upload a note to a digital folder upload a pdf to a digital folder 	Effective Searching: -Understand the internet and searching -Search the internet safely -Share our knowledge of the internet and effective searching Creating digital art: -Use tools to create a digital piece of art -create a digital piece of art by repeating patterns -Create a digital collage	Touch typing -touch type using the home, top and bottom keys. -touch type using the left hand keys -touch type using the right hand keys Email -compose an email -Recognise how to stay safe when communicating via email -attach work to an email	Presentation -create and save a document in a specified folder -create slides including items such as text and images. -add theme, transitions and animation to a presentation. -organise slides with hyperlinks. Animation	Word processing -apply skills from presentations to word processing. Database -understand how to search a database -enter information into a database -create our own database Networks -understand the network and how we access the internet	spreadsheets -enter data into a spreadsheet. -use a spreadsheet to carry out basic calculations including formulae. -create graphs and charts based on inputted data. Binary -understand what binary is -count in binary

					-create a simple,	-research the history of	-convert from binary
					paper-based animation	the internet	to decimal
					-use appropriate tools		
					to create an animated		
					image		
					-create a stop motion		
					animation		
Online Safety	-Recognise that anyone	-Identify when it is	-Explain how people may	- Be critical of online	-Recognise positive ways	-Recognise that there are	-Be cautious of sharing
<u></u>	can say no to somebody	necessary to ask	act differently online and	relationships when	to interact with others	some people I	content online and
	who makes them feel sad,	permission when using the	give examples of how to	determining who we can	online and understand	communicate with online	consider the
	uncomfortable,	internet.	get help.	trust.	that someone's online and	who may want to do me or	consequences for all
	embarrassed or upset.	-Consider what	-Understand the	-Understand appropriate	offline identity may differ.	my friends harm and that	involved.
	-Recognise ways to use the	information is appropriate	importance of giving and	ways to behave towards	-Be able to find	this is not my / our fault.	-Explain ways in which we
	internet to communicate.	to share online.	requesting consent when	others online.	information online and	-Recognise how some	can positively build and
	-Identify ways that I can	- Find simple information	communicating over the	-Recognise the difference	identify whether it is	online behaviours may	protect our online
	put information on the	using digital technologies	internet.	between fact and opinion	reliable.	upset others and identify a	reputation.
	internet.	and understand that some	-Explain how information	and identify where we	-Recognise when someone	range of ways to deal with	-Know how to capture
	-Describe ways that some	things we may not like or	put online can be seen by	might find them.	is unhappy online and	concerns.	evidence of inappropriate
	people can be unkind	may not be true.	others and last for a long	-Understand the potential	describe ways online	-Evaluate the reliability	online encounters and
	online and offer examples	- Explain how passwords	time.	negative effects of	bullying may take place.	and motives of online	how to report it.
	of how this can make	are used to protect	-Navigate simple	prolonged time spend	-Recognise methods used	information and the effect	-Define the terms
	others feel.	information, accounts and	webpages and understand	using technology and the	to encourage online	it can have on people.	'influence', 'manipulation'
	-Understand how to use	devices.	voice activated searching.	reasons for age	spending.	-Recognise the benefits	and 'persuasion' and
	the internet to find	-Explain why work I create	-Recognise that content on	restrictions that may be in	-Understand that when	and risks of accessing	explain how someone
	information and identify devices to use.	belongs to me.	the internet may belong to	place.	searching on the internet	information about health	might encounter these online.
	-Identify rules that help		other people.	-Describe simple strategies	for content to use, I can explain why I need to	and well-being online and how we should balance	-Recognise the features of
	keep us safe and healthy			for creating and keeping	consider who owns it and		persuasive design and
	in and beyond the home			passwords private.	whether I have the right to	this with talking to trusted adults and professionals.	what strategies can be
	when using technology.				reuse it.	-Explain how many free	used to limit the impact of
	-Identify some simple				reusent.	apps or services may read	technology on health.
	examples of my personal					and share private	-Describe effective ways
	information and can					information and know	people can manage
	describe who would be					how to set permissions to	passwords and explain
	trustworthy to share this					protect my data.	what to do if a password is
	information with.						shared, lost or stolen.
	-Name work that belongs						
	to us.						