

Computer Topic Plan and Coverage Overview

Pupils should be taught to:

Topic	Year 1			Year 2		
	Autumn 2	Summer 1	Summer 2	Autumn 1	Autumn 2	Summer 1
Topic	QR codes	Wordprocessing	Beebots	Microsoft paint	PowerPoint	Scratch
NC focus	<ul style="list-style-type: none"> ➤ use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. ➤ ☑ use technology purposefully to retrieve digital content ➤ ☑ recognise common uses of information technology beyond school ➤ understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions 					
NC Focus over the year	<ul style="list-style-type: none"> ☑ use technology purposefully to retrieve digital content ☑ recognise common uses of information technology beyond school 	<ul style="list-style-type: none"> ☑ use technology purposefully to create, organise, store, manipulate and retrieve digital content ☑ recognise common uses of information technology beyond school 	<ul style="list-style-type: none"> understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs 	<ul style="list-style-type: none"> ☑ use technology purposefully to create, organise, store, manipulate and retrieve digital content ☑ recognise common uses of information technology beyond school 	<ul style="list-style-type: none"> ☑ use technology purposefully to create, organise, store, manipulate and retrieve digital content ☑ recognise common uses of information technology beyond school 	<ul style="list-style-type: none"> understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs
Target tracker objectives	Understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies. (E-Safety)			Use technology safely and keep personal information private. (E-Safety) Recognise common uses of information technology beyond school. (Computers)		
	Recognise common uses of information technology in the home and school environment. (Computers)	Use technology purposefully to create digital content. (Using Computer)	Understand what algorithms are and how they are implemented on digital devices. (Coding) Predict the behaviour of simple programs. (Coding)	Use technology purposefully to create digital content comparing the benefits of different programs. (Using Computer)	Use technology purposefully to create, organise, store, manipulate and retrieve digital content. (Using Computer) Use technology purposefully to create digital content comparing the benefits	Use logical reasoning to predict the behaviour of simple programs. (Coding)

					of different programs. (Using Computer) I can find open edit and save files I am working on I can use different programs and discuss benefits of their usage	
Computers (use of computers)	Different devices – laptops, ipads, phones, Xbox etc What do we use them for? Which devices use a code? How a library computer works?	Use of Microsoft word on a computer. What do we use it for? Getting to know the qwerty keyboard and beginning to find some letters Use of different keys e.g. space bar etc	Different programmable devices microwave, ovens, beebots, watches, phones, xbox, playstation etc Use the arrow keys etc to control the movement	A different art programmes they use on the ipads/phones/ etc. Use of google to look at different art/paintings that use dots/pointillism etc	Use of word and ppt Adding pictures/video to text	
Using computers (creating saving etc)	What is a computer code? What is a QR code for?	Creating documents to show information Work can be saved and retrieved from computer/network later Changing the text, colour size etc	Make a route for a beebot	Know what pixels are Change the size/colour of the paintbrush/dot etc Pointillism for dots Recap open and save your work Fill /rotate /edit/duplicate shapes and colours	Create and edit their ppt Organise ideas	Saving on an ipad
Safety	Safety rules recap for using different devices Log in/ need for a secure password	Saving documents safely Recap all safety rules		Saving documents safely Recap all safety rules	Safety about content they can use What happens if its not what they were expecting	Keeping safe whilst computer games What happens if its not what they were expecting
Coding	What is a code? What different codes do they know? QR codes how do they work? Where have you seen them?		Know an algorithm is a set of instructions Make a jam sandwich by following instructions Follow instructions Make Beebot move in diff directions Correct mistake			Recap Know an algorithm is a set of instructions and what uses algorithms Creating and debugging in scratch on the ipads