

	EYFS	Children recognise that a range of technology is used in places for particular purposes.	such as homes and schools. They select and use technology
	Year 1/2	Year 3/4	Year 5/6
Computer Science	 Pupils should be taught to: 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 thebehaviour of simple programs recognise common uses of information technology beyond school 	 Pupils should be taught to: design write and debug programs that accomplish specific goals,solve problems by decomposing them in smaller parts use sequence, selection and repetition in programs use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs recognise common uses of information technology beyond school 	 Pupils should be taught to: design, write and debug programs that accomplish specific goals; including controlling or simulating physical systems and solving problems by decomposing them into smaller parts use sequence, selection and repetition in programs; work with variables andvarious forms of input and output use logical reasoning to explain howsome simple algorithms work and to detect and correct errors in algorithms and programs understand computer networks including the internet; how they can provide multiple services, such as the world wide web, andthe opportunities they offer for communication and collaboration
	 Year 1 I can create a series of instructions. I can plan a journey for a programmable toy. 	 Year 3 I can design a sequence of instructions, including directional instructions. I can write programs that accomplish 	 Year 5 I can combine sequences of instructions and procedures to turn devices on and off. I can use technology to control an external device. I can design algorithms that use repetition & 2-way selection.



Progression in Computing

Year 2	Year 4	Year 6
 I can use a range of instructions(e.g. direction, angles, turns). I can test and amend a set of instructions. I can find errors and amend. (debug) I can write a simple program and test it. I can predict what the outcome of a simple program will be (logical reasoning). I understand that algorithms are used on digitaldevices. I understand that programs require precise instructions. 	 I can experiment with variables to control models. I can give an on-screen robot specific instructions that takes them from A to B. I can make an accurate prediction and explain why I believe something will happen (linked to programming). I can de-bug a program. 	 I can design a solution by breaking a problem up. I recognize that different solutions can exist for the samproblem. I can use logical reasoning to detect errors inalgorithms. I can use selection in programs. I can explain how an algorithm works. I can explore 'what if' questions by planning different scenarios for controlled devices.



Digital Literacy

Progression in Computing

Pupils sho	ould be taught to:	Pupils should be taught to:	Pupils should be taught to:
pers go f con	technology safely and respectfully, keeping sonal information private; identify where to for help and support when they have cerns about content on the internet or other ine technologies	 Use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a rangeof ways to report concerns about content and contact use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content 	 use technology safely, respectfully and responsibly; recognise acceptable/ unacceptable behaviour; identify a rangeof ways to report concerns about content and contact use search technologies effectively, appreciate how results are selected and ranked and be discerning in evaluating digital content
 I can Year 2 I use I know am cc I know 	use technology safely. keep personal information private. technology respectfully. w where to go for help if I oncerned. w how technology is used in oland outside of school.	 Year 3 I use technology respectfully and responsibly. I know different ways I can get help if I am concerned. I understand what computer networks do and how they provide multiple services. I can discern where it is best to use technology and where it adds little or no value. Year 4 I recognise acceptable and unacceptable behaviour using technology. 	 Year 5 I understand that you have to make choices when using technology and that not everything is true and/orsafe. Year 6 I can discuss the risks of online use of technology. I can identify how to minimize risks.
• us or	ould be taught to: se technology purposefully to create, ganise, store, manipulate and retrieve gital content	 Pupils should be taught to: 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 	 Pupils should be taught to: 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



Progression in Computing

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	Year 1	Year 3	Year 5
	 I can identify and find keys on a keyboard 	 I can use a range of software for similar purposes. 	 I can analyse information.
	 I can enter text into a computer 	 I can collect information. 	 I can evaluate information.
	 I can select text on a computer 	 I can design and create content. 	 I understand how search results are selected
	 I can use bold, italic and underlined 	 I can present information. 	and ranked.
	 I can make marks on a screen using digital apps 	I can search for information on the web in different ways.	 I can identify and use drawing tools
	I can use a website	 I can manipulate and improve digital images 	 I can use the zoom tool to help me add detail to my
	 I can use paint tools to create a picture 	 I can create effective animations 	drawings
	 I can create, store and retrieve digital content 	 I can add other medias to my animations 	 I can use visual media formats
6	 I can appropriately change the colour of a picture 		 I can experiment with different camera angles
Õ.	 I can choose appropriate paint tools 	Year 4	I can capture video using a range of filming techniques
echnolo			• I can make edits to a video by selecting the correct tools
2	Year 2	 I can select and use software to 	
		accomplish given goals.	Year 6
5	 I can capture digital photographs 	 I can collect and present data. 	
<u></u>	 I can experiment with different light sources 	 I can identify the inputs and outputs required to play 	• I can select, use and combine software on a range of
	 I can use tools to achieve a desired effect 	audio or record sound	digital devices.
2	 I can organise digital content 	 I can use a device to record audio and play back sound 	 I can use a range of technology for a specific
ion	 I can navigate the web to complete simple searches 	 I can plan and write the content for a podcast 	project.
	 I can connect images with sounds 	 I can save a digital recording as a file and open it 	 I can select, move, and delete a digital 3D
6	 I can use a computer to experiment with pitch and 	 I can edit sections of an audio recording 	shape
rmat	duration	 I can change the composition of an image by selecting 	 I can make changes to a digital 3D shape
2	I can save my work	parts of it	in relation to size and position
0		I can retouch an image	I can select appropriate 3D shapes to
			make a model
2			 I know that websites are written in HTML
			 I can draw a web page layout to suit a
			given purpose
			I can use hyperlinks