

	EYFS
	• Show resilience and perseverance in the face of a challenge.
Personal, Social and Emotional Development	 Know and talk about the different factors that support their overall health and wellbeing: sensible amounts of 'screen time'.
	 Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. (ELG)
	 Explain the reasons for rules, know right from wrong and try to behave accordingly. (ELG)
Physical development	• Develop their small motor skills so that they can use a range of tools competently, safely and confidently.
Expressive Art and Design	• Explore, use and refine a variety of artistic effects to express their ideas and feelings.
	 Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. (ELG)



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Computer systems and Networks	 To identify technology To identify a computer and its main parts To use a mouse in different ways To use a keyboard to type To use the keyboard to edit text To create rules for using technology responsibly 	 To recognise the uses and features of information technology To identify information technology in the home To identify information technology beyond school To explain how information technology beyond school To explain how information technology benefits us To show how to use information technology safely To recognise that choices are made when using information technology 	 To explain how digital devices function To identify input and output devices To recognise how digital devices can change the way we work To explain how a computer network can be used to share information To explore how digital devices can be connected To recognise the physical components of a network 	 To describe how networks physically connect to other networks To recognise how networked devices, make up the internet To outline how websites can be shared via the World Wide Web To describe how content can be added and accessed on the World Wide Web To recognise how the content of the WWW is created by people To evaluate the consequences of unreliable content 	 To explain that computers can be connected together to form systems To recognise the role of computer systems in our lives To recognise how information is transferred over the internet To explain how sharing information online lets people in different places work together To contribute to a shared project online To evaluate different ways of working together online 	 To identify how to use a search engine To describe how search engines, select results To explain how search results are ranked To recognise why the order of results is important, and to whom To recognise how we communicate using technology To evaluate different methods of online communication



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Creating Media	 To use a computer to write To add and remove text on a computer To identify that the look of text can be changed on a computer To make careful choices when changing text To explain why I used the tools that I chose To compare writing on a computer with writing on paper 	 To know what devices can be used to take photographs To use a digital device to take 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 images can be changed 	 To explain that animation is a sequence of drawings or photographs To relate animated movement with a sequence of images To plan an animation To identify the need to work consistently and carefully To review and improve an animation To evaluate the impact of adding other media to an animation 	 To identify that sound can be digitally recorded: To use a digital device to record sound: To explain that a digital recording is stored as a file: To explain that audio can be changed through editing: To show that different types of audio can be combined and played together: To evaluate editing choices made 	 To recognise video as moving pictures, which can include audio To identify digital devices that can record video To capture video using a digital device To recognise the features of an effective video To identify that video can be improved through reshooting and editing To consider the impact of the choices made when making and sharing a video 	 To review an existing website and consider its structure To plan the features of a web page To consider the ownership and use of images (copyright) To recognise the need to preview pages To outline the need for a navigation path To recognise the implications of linking to content owned by other people. 	



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Data and information	 To label objects To identify that objects can be counted To describe objects in different ways To count objects with the same properties To compare groups of objects To answer questions about groups of objects 	 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 attribute and make comparisons To recognise that people can be described by attributes To explain that we can present information using a computer 	 To create questions with yes/no answers To identify the object attributes needed to collect relevant data To create a branching database To identify objects using a branching database To explain why it is helpful for a database to be well structured To compare the information shown in a pictogram with a branching database 	 To explain that data gathered over time can be used to answer questions To use a digital device to collect data automatically To explain that a data logger collects 'data points' from sensors over time To use data collected over a long duration to find information To identify the data needed to answer questions To use collected data to answer 	 To use a form to record information To compare paper and computer-based databases To outline how grouping and then sorting data allows us to answer questions To explain that tools can be used to select specific data To explain that computer programs can be used to compare data visually To apply my knowledge of a database to ask and answer real-world 	 To identify questions which can be answered using data To explain that objects can be described using data To explain that formula can be used to produce calculated data To apply formulas to data, including duplicating To create a spreadsheet to plan an event To choose suitable ways to present data
				questions	questions	

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6



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	 To ex comr To ac To co 	xplain what a given mand will do ct out a given word ombine forwards and	•	To describe a series of instructions as a sequence To explain what happens when we change the order	•	To explore a new program	٠	To identify that accuracy in programming is important	•	To control a simple circuit connected to a computer To write a program that includes count- controlled	•	To define a 'variable' as something that is
Program ming	backy make • To co comr	wards commands to e a sequence ombine four direction mands to make	•	of instructions To use logical reasoning to predict the outcome of a program (series of	•	ming environm ent I can identify that	•	To create a program in a text- based language To explain what	•	loops To explain that a loop can stop when a condition is met,	•	changeable To explain why a variable is
	 seque To plate To fir solution 	ences lan a simple program nd more than one tion to a problem	•	commands) To explain that programming projects can have code and artwork		each sprite is controlled by the commands I choose	•	'repeat' means To modify a count- controlled loop to produce a given	•	e.g. number of times To conclude that a loop can be used to repeatedly check whether a condition	•	used in a program To choose how to
	 To ch a give To sh comr 	hoose a command for ren purpose now that a series of mands can be joined	•	To design an algorithm To create and debug a program that I have written	•	To explain that a program has a start To recognise	•	outcome To decompose a program into parts To create a	•	has been met To design a physical project that includes selection To create a controllable		improve a game by using variables
	 To id chang To ex 	ther lentify the effect of iging a value xplain that each sprite	•	of commands has a start To explain that a sequence of commands has an		that a sequence of commands can have an order		program that uses count- controlled loops to produce a		system that includes selection.	•	fo design a project that builds on a given
	 To de proje To us 	ts own instructions esign the parts of a ect se my algorithm to create	•	outcome To create a program using a given design To change a given design	•	To change the appearance of my project To create a project		given outcome			•	example To use my design to create a
	a pro	ogram	•	To create a program using my own design To decide how my project can be improved		from a task description					То	project evaluate my project