

## Computing Long term plan 2024-2025

	Advent 1	End points	Advent 2	End points	Lent 1	Lent 1	End points	Lent 2	End points
EYFS	Computer systems and networks  Using a computer All 5 lessons) https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/using-a-computer/		Programming  All about Instructions (All 5 Lessons)  https://www.kapow primary.com/subjec ts/computing/eyfs/e yfs-years/all-about- instructions/		Online safety week (Whole school)	Computing Systems and networks  Exploring Hardware (4 lessons 1-4)  https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/exploring-hardware/		Data Handling Introduction to data (4 lessons 1-4) https://www.kapowprimary.com/subjects/computing/eyfs/eyfs-years/an-introduction-to-data/	
Year 1	Computer systems and networks Improving Mouse skills 3 lessons 1-3) https://www.kapowprimary.com/subjects/computing/key-stage-1/year-1/improving-mouse-skills/	Use computers more purposefully Log in and navigate around a computer Drag, drop, click and control a cursor using a mouse Use software tools to create art on the computer	Programming 1  Algorithms unplugged (4 lessons 1,2,4,and 5 https://www.kapow primary.com/subjec ts/computing/key- stage-1/year- 1/algorithms- unplugged/ )	<ul> <li>Explain what an algorithm is.</li> <li>Write clear algorithms.</li> <li>Follow an algorithm.</li> <li>Explain what inputs and outputs are.</li> <li>Create an achievable programme.</li> <li>Decompose a design into steps.</li> <li>Identify bugs in an</li> <li>algorithm and how to fix them.</li> </ul>	Online safety week (Whole school)	Creating Media  Digital Imagery 3 lessons 1-3) https://www.kapowprima ry.com/subjects/computi ng/key-stage-1/year- 1/creating-media-digital- imagery/	<ul> <li>Plan a pictorial story using photographic images in sequence.</li> <li>Explain how to take clear photos.</li> <li>Take photos using a device.</li> <li>Edit photos by cropping, filtering and resizing.</li> <li>Search for and import images from the internet.</li> <li>Explain what to do if something makes them uncomfortable online.</li> <li>Organise images on the page, orientating where necessary.</li> </ul>	Beebot (option 1: Beebot) https://www.kapo wprimary.com/su bjects/computing/ key-stage-1/year- 1/programming/pr ogramming- beebot/	<ul> <li>Recognise cause and effect when pressing buttons on a Bee-Bot.</li> <li>Discuss and demonstrate how the Bee-Bot works.</li> <li>Record video, ensuring everyone is in the shot.</li> <li>Give several clear instructions in sequence.</li> <li>Program a Bee-Bot to reach a destination.</li> <li>Identify and correct mistakes in their programming.</li> </ul>
Year 2	Computing systems and networks 1  What is a computer? (3 lessons: 1, 2 and 5 only) https://www.kapowprimary.com/subjects/computing/keystage-1/year-2/what-is-acomputer/	<ul> <li>Name some computer peripherals and their functions.</li> <li>Recognise that buttons cause effects.</li> <li>Explain that technology follows instructions.</li> </ul>	Programming 1  Algorithms and debugging (4 lessons 1, 2, 4 and 5)  https://www.kapowprimary.com/subjects/computing/key-stage-1/year-	<ul> <li>Decompose a game to predict the algorithms.</li> <li>Give a definition for 'decomposition'.</li> <li>Write clear and precise algorithms.</li> <li>Create algorithms to solve problems.</li> </ul>	Online safety week (Whole school)	International space station 3 lessons 1, 3 and 5 https://www.kapowprima ry.com/subjects/computi ng/key-stage-1/year- 2/international-space- station/	<ul> <li>Describe and explain how astronauts' survival needs are met aboard the ISS.</li> <li>Identify and digitally draw items which fulfil basic human needs when aboard the ISS.</li> <li>Read the correct temperature on a thermometer.</li> </ul>	Programming 2  Scratch Jr 4 lessons 1,2,4 and 5 https://www.kapo wprimary.com/su bjects/computing/ key-stage-1/year- 2/programming- scratch-jr/	<ul> <li>Explore a new application independently.</li> <li>Explain what the blocks on ScratchJr do and use them for a purpose.</li> <li>Recognise a loop in coding and why it is useful.</li> </ul>

		<ul> <li>Recognise different forms of technology.</li> <li>Design an invention which includes inputs and outputs.</li> <li>Explain the role of computers in the world around them.</li> </ul>	2/algorithms-and- debugging/	<ul> <li>Use loops in their algorithms to make their code more efficient.</li> <li>Explain what abstraction is.</li> </ul>			<ul> <li>Design a display showing everything that needs to be monitored by sensors on the ISS.</li> <li>Create an algorithm that addresses all plants' needs.</li> <li>Explain how space exploration can benefit life on Earth.</li> <li>Read data to identify whether a planet might be habitable.</li> </ul>	https://www.wick eduncle.co.uk/jok es/age/jokes-for- 6-year-olds	Use a code to create an animation of an animal moving.
Year 3	Computing systems and networks 1  Networks (3 lessons 1,3 and 5)  https://www.kapowprimary.com/subjects/computing/lower-key-stage-2/year-3/networks/	<ul> <li>Recognise that a network is two or more devices connected and its purpose.</li> <li>Identify key components that make up the school's network.</li> <li>Explain the difference between wired and wireless connections.</li> <li>Recognise that files are saved on a server.</li> <li>Understand the role of the server in a network when requesting a website.</li> <li>Identify parts of a website's journey to reach your computer.</li> <li>Recognise that routers connect to send information.</li> <li>Understand that data is broken into packets.</li> </ul>	Computing systems and networks 3  Journey inside a computer (4 lessons 1,2,3 and 5  https://www.kapow primary.com/subjec ts/computing/lower -key-stage-2/year-3/journey-inside-a-computer/	Recognise inputs and outputs and that the computer sends and receives information.  Explain that the parts of a laptop work together and the purpose of each part.  Explain what an algorithm is.	Online safety week (Whole school)	Creating Media  Video trailers Option 2: using iPadS (IMOVIE) (4 lessons 1_4)  https://www.kapowprima ry.com/subjects/computi ng/lower-key-stage- 2/year-3/digital-literacy- 2/video-trailers-using- ipads-assessment/	<ul> <li>Describe the purpose of a trailer.</li> <li>Create a storyboard for a book trailer.</li> <li>Consider camera angles when taking photos or videos.</li> <li>Import videos and photos into film editing software.</li> <li>Add text to a video.</li> <li>Incorporate transitions between images.</li> <li>Evaluate their own and others' trailers.</li> </ul>	Programming Scratch (4 lessons 1,2,3 and 5)  https://www.kapo wprimary.com/su bjects/computing/ lower-key-stage- 2/year- 3/programming- scratch/	<ul> <li>Explain what some of the blocks do in Scratch.</li> <li>Explain what a loop is and include one in their program.</li> <li>Suggest possible additions to an existing program by remixing code.</li> <li>Recognise where something on screen is controlled by code.</li> <li>Use a systematic approach to find bugs.</li> <li>Understand the definitions of decomposition and algorithm and how they are used to create accurate code.</li> </ul>
Year 4	Computing systems and networks  Collaborative learning (Option 2: Microsoft teams (4 lessons 1, 3,4, and 5  https://www.kapowprimary.com/subjects/computing/l	<ul> <li>Understand the need to be thoughtful when working on a collaborative document.</li> <li>Use comments to suggest changes to a document and</li> </ul>	Programming 1  Further coding with Scratch (3 lessons: 2-4 only)  https://www.kapow primary.com/subjec ts/computing/lower	<ul> <li>Understand         how to create a         simple script in         Scratch.</li> <li>Add or change a         sprite and         prevent it from         rotating.</li> <li>Use         decomposition</li> </ul>	Online safety week (Whole school)	Investigating weather (3 lessons 1,3 and 4  https://www.kapowprima ry.com/subjects/computi ng/lower-key-stage-	<ul> <li>Search the web efficiently to find temperatures of different cities and record this accurately.</li> <li>Design a weather station that gathers and records sensor data, explaining how it works and the units of</li> </ul>	Programming 2  Computational thinking (4 lessons 1-4)  https://www.kap owprimary.com/ subjects/comput	<ul> <li>Understand that problems can be solved more easily using computational thinking.</li> <li>Understand what the different code blocks do and create a simple game.</li> </ul>

	ower-key-stage-2/year-	understand how to	-key-stage-2/year-		dentify key		2/year-4/investigating-	measurement it would	ing/lower-key-	Understand the
	4/collaborative-learning-	resolve comments.	4/programming-1-		ures and		weather/	use.	stage-2/year-	terms <b>pattern</b>
	2/microsoft-collaborative-	Plan a survey for	<u>further-coding-</u>		erstand how			Design an automated	4/computational	recognition and
	learning/	Microsoft Form	with-scratch/		ecipher			machine that uses	-thinking/	abstraction and how
		with a range of			ons that			selection to respond to		they help to solve a
		different question			e the quiz			sensor data.		problem.
		types that will		gan	e work.			Search for and record		
		provide different						weather forecast		
		types of answers, e.g. text, multiple						information in a		
		choice or						spreadsheet and explain how this data is		
		numerical values.						collected.		
		Create a Microsoft						Create a video which		
		Form with a range						includes weather		
		of different						forecast information.		
		question types that						Torceast information.		
		will provide								
		different types of								
		answers, e.g. text,								
		multiple choice or								
		numerical values.								
		Export data to a								
		spreadsheet,								
		highlighting data,								
		using conditional								
		formatting and								
		calculating averages and sums								
		avciages and sums								
1		of numbers								
		of numbers.								
_	Computing systems and	of numbers.  • Explain what a	Data Handling	• Ider	atify some	Online	Creating media	Create a toy with simple	Programming	New unit/ being reviewed.
Ye	Computing systems and networks		Data Handling		,	Online safety	Creating media	<ul> <li>Create a toy with simple images and a single</li> </ul>	Programming	New unit/ being reviewed.
Year		<ul> <li>Explain what a search engine is, suggest several</li> </ul>	Data Handling  Mars Rover 1	type the	es of data Mars Rover	safety		images and a single movement.		New unit/ being reviewed.
Year 5	networks	<ul> <li>Explain what a search engine is, suggest several search engines to</li> </ul>	Mars Rover 1	type the cou	es of data Mars Rover d collect	safety week	Creating media  Option 1: Stop motion studio.	images and a single movement. • Create a short stop	Programming Programming music	New unit/ being reviewed.
Year 5	networks Search engines	<ul> <li>Explain what a search engine is, suggest several search engines to use and explain</li> </ul>	Mars Rover 1 (3 lessons 1,2 and	type the coul (for	es of data Mars Rover Id collect example,	safety week (Whole	Option 1: Stop motion studio.	<ul><li>images and a single movement.</li><li>Create a short stop motion with small</li></ul>	Programming music	New unit/ being reviewed.
	networks	<ul> <li>Explain what a search engine is, suggest several search engines to use and explain how to use them</li> </ul>	Mars Rover 1	type the coul (for pho	es of data Mars Rover d collect example, tos).	safety week	Option 1: Stop motion	<ul><li>images and a single movement.</li><li>Create a short stop motion with small changes between</li></ul>	Programming	New unit/ being reviewed.
	networks  Search engines (4 lessons 1-3 and 5)	<ul> <li>Explain what a search engine is, suggest several search engines to use and explain how to use them to find websites</li> </ul>	Mars Rover 1 (3 lessons 1,2 and 4)	type the coul (for pho • Exp	es of data Mars Rover Id collect example, tos). lain how the	safety week (Whole	Option 1: Stop motion studio. (4 lessons 1-4)	<ul> <li>images and a single movement.</li> <li>Create a short stop motion with small changes between images.</li> </ul>	Programming music Option 1 sonic Pi	New unit/ being reviewed.
	networks  Search engines (4 lessons 1-3 and 5)  https://www.kapowprimary.c	<ul> <li>Explain what a search engine is, suggest several search engines to use and explain how to use them to find websites and information.</li> </ul>	Mars Rover 1 (3 lessons 1,2 and 4)  https://www.kapow	type the coul (for pho • Exp Mar	es of data Mars Rover Id collect example, tos). lain how the s Rover	safety week (Whole	Option 1: Stop motion studio. (4 lessons 1-4)  https://www.kapowprima	<ul> <li>images and a single movement.</li> <li>Create a short stop motion with small changes between images.</li> <li>Think of a simple story</li> </ul>	Programming music	New unit/ being reviewed.
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	networks  Search engines (4 lessons 1-3 and 5)  https://www.kapowprimary.com/subjects/computing/upper-key-stage-2/year-	<ul> <li>Explain what a search engine is, suggest several search engines to use and explain how to use them to find websites and information.</li> <li>Suggest that things online are not</li> </ul>	Mars Rover 1 (3 lessons 1,2 and 4)  https://www.kapow primary.com/subjec ts/computing/upper	type the coul (for pho • Exp Mar tran data	es of data Mars Rover Id collect example, tos). lain how the s Rover smits the a back to	safety week (Whole	Option 1: Stop motion studio. (4 lessons 1-4)  https://www.kapowprimary.com/subjects/computing/upper-key-stage-	<ul> <li>images and a single movement.</li> <li>Create a short stop motion with small changes between images.</li> <li>Think of a simple story idea for their animation and then decompose it</li> </ul>	Programming music Option 1 sonic Pi (4 lessons 1-4)	New unit/ being reviewed.
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	networks  Search engines (4 lessons 1-3 and 5)  https://www.kapowprimary.c om/subjects/computing/upp er-key-stage-2/year- 5/computing-systems-and-	<ul> <li>Explain what a search engine is, suggest several search engines to use and explain how to use them to find websites and information.</li> <li>Suggest that things online are not always true and recognise what to check for.</li> </ul>	Mars Rover 1 (3 lessons 1,2 and 4)  https://www.kapow primary.com/subjec ts/computing/upper -key-stage-2/year-	type the coul (for pho • Exp Mar tran data Eart chal	es of data Mars Rover Id collect example, tos). lain how the s Rover smits the a back to th and the lenges olved.	safety week (Whole	Option 1: Stop motion studio. (4 lessons 1-4)  https://www.kapowprimary.com/subjects/computing/upper-key-stage-2/year-5/stop-motion-	<ul> <li>images and a single movement.</li> <li>Create a short stop motion with small changes between images.</li> <li>Think of a simple story idea for their animation and then decompose it into smaller parts to create a storyboard</li> </ul>	Programming music Option 1 sonic Pi (4 lessons 1-4) https://www.kapo wprimary.com/su bjects/computing/ upper-key-stage-	New unit/ being reviewed.
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		searching and internet searching, explaining the role of web crawlers and recognising that results are rated to decide rank.							
Year 6	Computing systems and networks  Bletchley Park and the history of computers (4 lessons 1,2,3,5)  https://www.kapowprimary.com/subjects/computing/upper-key-stage-2/year-6/computing-systems-and-networks-bletchley-park-and-the-history-of-computers/	<ul> <li>Explain that codes can be used for a number of different reasons and decode messages.</li> <li>Explain how to ensure a password is secure and how this works.</li> <li>Present information about their historical figures in an interesting and engaging manner.</li> <li>Produce a simple audio advert with simple edits, which demonstrate an understanding of how to use the software.</li> </ul>	Big Data 1 ( 4 lessons 1,3,4 and 5)  https://www.kapowprimary.com/subjects/computing/upper-key-stage-2/year-6/big-data-1/	<ul> <li>Understand why barcodes and QR codes were created.</li> <li>Create (and scan) their own QR code using a QR code generator website.</li> <li>Explain how infrared can be used to transmit a Boolean type signal.</li> <li>Explain how RFID works, recall a use of RFID chips, and type formulas into spreadsheets.</li> <li>Take real-time data and enter it effectively into a spreadsheet.</li> <li>Presenting the data collected as an answer to a question.</li> </ul>	Online safety week (Whole school)	Computing systems and networks 2  Al (3 lessons 1,2 and 5) Year 6 Computing Unit: Systems And Networks - Al	<ul> <li>Explain what AI is and its basic functions.</li> <li>Identify real-life applications of AI that are commonly used in everyday life.</li> <li>Identify how AI understands and processes text and image prompts.</li> <li>Generate and refine prompts to achieve the best possible response from AI.</li> <li>Identify how AI generates code and how it can be useful in web design.</li> <li>Identify how AI can be a useful starting point for a project.</li> <li>Explain the key ethical considerations of AI.</li> <li>Debate the potential of AI replacing human roles, presenting well-structured arguments.</li> </ul>	Intro to Python (4 lessons 1-4  https://www.kap owprimary.com/ subjects/comput ing/upper-key- stage-2/year- 6/intro-to- python/	<ul> <li>Iterate ideas, testing and changing throughout the lesson and explain what their program does.</li> <li>Use nested loops in their designs, explaining why they need two repeats.</li> <li>Alter the house drawing using Python commands; use comments to show a level of understanding around what their code does.</li> <li>Use loops in Python and explain what the parts of a loop do.</li> <li>Recognise that computers can choose random numbers; decompose the program into an algorithm and modify a program to personalise it.</li> </ul>