



EYFS	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Computing and		• Use prepositional	• Use technology to			• Understand how	
·		language to describe	program directions e.g.,			technology is used to gain	
mapping skills		position e.g., behind,	BeeBots or Apps.			and share information	
		under, on, in, next to.	Building upon			e.g, Google Earth	
			prepositional language.				
		A. s.		10			
Communication	Understanding Skills:	Understanding Skills:	Understanding Skills:	Speaking:	Listening & Attention:	Speaking:	
	Understand one step	Understand a question or	Ask questions to find out	Sequencing for example:	Listen and understand	Use talk to help work out	
and language	instructions e.g. put your	instruction that has two	more and to check they	Retell a story, once they	instructions about what	problems and organise	
	coat on your peg	parts, such as "Get your	understand what has	have developed a deep	they are doing, whilst on	thinking and activities	
	3 1 3	coat and wait at the	been said to them.	familiarity with the text;	another task e.g., while	explain how things work	
		door".		some as exact repetition	putting on shoes listen to	and why they might	
			A V /	and some in their own	the next instruction	happen	
			\'/	words		11	
ELG:		Listening, attention & speaking		Speaking			
J-5.		rhat t <mark>hey</mark> hear w <mark>ith relevant questions</mark>	, commen <mark>ts a</mark> nd actions <mark>wh</mark> en being	Participate in small grou <mark>p, cl</mark> ass and one-to-one discussions, offering their own ideas, using recently			
	read to and during whole class discussions and small group interactions. •Make comments about what they have heard and ask questions to clarify their understanding.			introduced vocabulary.			
		ngag <mark>ed in</mark> back- <mark>and-</mark> forth exchanges w		•Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.			
	Tiola conversación when er	.gagaa oden dild joren excilaliges w	s.c. redeller dild pecis.		bout their experiences using full sente	nces, including use of past, present	
					use of conjunctions, with modelling o		





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	Autumn 1 <u>Digital Literacy</u>	Autumn 2 <u>Injormation</u>	Spring 1 <u>Computer Science</u>	Spring 2 <u>Computer Science</u>	Summer 1 <u>Computer Science</u>	Summer 2 Information Technology
	Online Sajety	Technology Pictograms	Coding	Maze Explorers	Grouping and Sorting <u>Digital Literacy</u> Technology Outside School	Spreadsheets
Year 1	Knowledge To know the icons and types of resources available in the Topics section. To know their password and username. Skills To log in safely. To learn how to find saved work in the Online Work area and find teacher comments. To learn how to search Purple Mash to find resources. To start to add pictures and text to work. To explore the Tools and Games section of Purple Mash. To learn how to open, save and print. To understand the importance of logging out. Vocabulary Log In Log Out Avatar Username Notification My Work Password Topics Tools Save	Knowledge To know what data is and some the types of forms it takes. To know what a pictogram is. To know that data can be represented in picture format. Skills To contribute to a class pictogram. To use a pictogram to record the results of an experiment. Vocabulary Pictogram Data Collate	Knowledge To know what instructions are Skills To predict what might happen when they are followed. To use code to make a computer program. To understand what object and actions are. To understand what an event is. To use an event to control an object. To begin to understand how code executes when a program is run. To understand what backgrounds and objects are. To plan and make a computer program. Vocabulary Action, Algorithm Background, Code Command, Debugging Event , Execute Input, Instruction Object, Properties Output, Run Scale, Scene	Knowledge To know what an algorithm is. Skills To understand the functionality of the direction keys. To understand how to create and debug a set of instructions (algorithm). To use the additional direction keys as part of an algorithm. To understand how to change and extend the algorithm list. To create a longer algorithm for an activity. To set challenges for peers. To access peer challenges set by the teacher as 2Dos Vocabulary Direction Challenge Arrow Undo Rewind Forward Backwards Right Turn Left Turn Debug Instruction Algorithm	Knowledge To know that sorting means grouping. To know that we are surrounded by technology and it there to make Skills To sort items using a range of criteria. To sort items on the computer using the 'Grouping' activities in Purple Mash. Vocabulary Sort Criteria Technology	Knowledge To know what a spreadsheet program looks like and what it does Skills To locate 2Calculate in Purple Mash To enter data into spreadsheet cells. To use 2Calculate image tools to add clipart to cells. To use 2Calculate control tools: lock, move cell, speak and count Vocabulary Arrow Keys Backspace Cursor Column Cells Clipart Count Tool Rows Spreadsheet Image Toolbox





	Autumn 1 <u>Digital Literacy</u> Online Sajety	Autumn 2 I <u>nformation</u> <u>Technology</u> Presenting Ideas	Spring 1 <u>Information</u> <u>Technology</u> Spreadsheets	Spring 2 <u>Computer Science</u> Coding	Summer 1 Information Technology Questioning	Summer 2 <u>Digital Literacy</u> Effective Searches
Year 2	Knowledge To know what the internet is. To know that information put online leaves a digital footprint or trail. To know how to keep personal data and hardware secure Skills To use digital technology to share work on Purple Mash to communicate and connect with others locally. To have some knowledge and understanding about sharing more globally on the Internet. To introduce Email as a communication tool using 2Respond simulations. To understand how we should talk to others in on online situation. To open and send simple online communications inthe form of email. Vocabulary Search, sharing, email, attachment, digital footprint Display board Internet	Knowledge To know what a quiz, fact file and presentation are. Skills To explore how a story can be presented in different ways. To make a quiz about a story or class topic. To make a fact file on a nonfiction topic. To make a presentation to the class Vocabulary Concept map, quiz, nonfiction, fiction, audience, node, animated, presentation	Knowledge What a spreadsheet is and who uses them. Skills To be able to lock, move cell, speak and count tools To copy and paste To use the totalling tools. To use the equals tool to check calculations. To useto collect data and produce a graph. Vocabulary Rows, columns, cells, total, copy and paste	Knowledge To know what an algorithm is. To know that algorithms follow a sequence. Skills To create a computer program using an algorithm. To create a program using a given design. To design an algorithm that follows a timed sequence. To understand that different objects have different properties. To understand what different events do in code. To understand the function of buttons in a program. To understand and debug simple programs. Vocabulary Action, algorithm, debug, background	Knowledge To know what a binary database is. Skills Know that data handling tools that can give more information than pictograms. To use yes/no questions to separate information. To construct a binary tree to identify items. To use a binary tree database to answer questions. To use a database to answer more complex search questions. To use the Search tool to find information Vocabulary Database, binary branching tree, collate, data, question, avatar	Knowledge To know what the internet is and how it works. To know what a search engine is. Skills To understand the terminology associated with searching. To gain a better understanding of searching on the Internet. To create a leaflet to help someone search for information on the Internet. Vocabulary Search, search engine and internet





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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Digital Literacy</u>	<u>Information</u>	<u>Computer Science</u>	<u>Computer Science</u>	Injormation Technology	Information Technology
	Online Sajety	<u>Technology</u>	Coding	Logo	Spreadsheets	animation
	·	Writing For	_			
		Diggerent Audiences				
LKS2 Cycle 1	Knowledge Know how children can protect themselves from online identity theft. Know that information put online leaves a digital footprint or trail and that this can aid identity theft. Know the importance of balancing game and screen time with other parts of their lives. Skills To identify the risks and benefits of installing software including apps. To identify appropriate behaviour when participating or contributing to collaborative online projects for learning. To identify the positive and negative influences of	Knowledge Know how font size and style can affect the impact of a text. Skills To use a simulated scenario to produce a news report. To use a simulated scenario to write for a community campaign. Vocabulary	Knowledge To begin to understand selection in computer programming. Know how an IF statement works. Know how to use co-ordinates in computer programming. Knowhow an IF/ELSE statement works. Know what a variable is in programming. Skills Be able to use the 'repeat until' command. Be able to use a number variable. Vocabulary Action, Alert, Background, Code Block, Debug/Debugging, Execute,	Knowledge Know the structure of the coding language of Logo. Skills To input simple instructions in Logo. Using 2Logo to create letter shapes. To use the Repeat function in Logo to create shapes. To use and build procedures in Logo Vocabulary LOGO, BK, FD, RT, LT, REPEAT, SETPC, SETPS, PU, PD	Knowledge Skills To format cells as currency, percentage, decimal to different decimal places or fraction. To use the formula wizard to calculate averages. To combine tools to make spreadsheet activities such as timed times tables tests. To use a spreadsheet to model a reallife situation. To add a formula to a cell to automatically make a calculation in that cell. Vocabulary Average Function, Advance mode, Copy and Paste, Columns, Cells, Charts, Equals tool, Formula	Knowledge Know what makes a good, animated film or cartoon. Know how animations are created by hand. Know how animation can be created in a similar way using the computer. Skills To learn about onion skinning in animation. To add backgrounds and sounds to animations. To be introduced to 'stop motion' animation. To share animation on the class display board and by blogging. Vocabulary Animation, Flipbook, Frame, Onion skinning, Background, Stop motion
	technology on health and the environment. Vocabulary Digital footprint, Phishing, Plagiarism, Spam, Malware, Copyright, Identity theft, Cookies, Computer virus		If/Else, Nesting			





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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<u>Digital Literacy</u>	<u>Information</u>	<u>Computer Science</u>	<u>Information</u>	Information Technology	<u>Digital Literacy</u>
	Online Sajety	<u>Technology</u>	Coding	<u>Technology</u>	Spreadsheets	Email
		Touch Typing		Branching		
				Databases		
LKS2 Cycle	Knowledge To know what makes a safe	Knowledge To know what touch typing	Knowledge To know what a flowchart is	Knowledge To know what a branching	Knowledge Know that a spreadsheet is a computer	Knowledge
2	password To know how the Internet can be used in effective communication.	is. To know the correct way to sit at the keyboard and why	and how flowcharts are used in computer programming. To know that there are different types of	database is. Skills	program that represents information in a grid of rows and columns. Any cell in the grid may contain either data or a formula that describes the value to	Know that email is a method of sending electronic communication from one device to another.
	To know how a blog can be used to communicate with a wider audience. To know the meaning of age	Skills To learn how to use the home, top and bottom row keys.	timers and select the right type for purpose. Skills	To sort objects using just 'yes' or 'no' questions. To complete a branching database. To create a branching	be inserted based on the values in other cells.	Know what you should do if you receive an email that makes you upset or scared?
	restrictions symbols on digital media and devices.	To practise typing with the left and right hand	To understand how to use the repeat command.	database Vocabulary	To use the symbols more than, less	Know what information can I send in an email?
	Skills To learn methods for keeping	Vocabulary posture, top row keys, home row keys, bottom row keys,	To understand the importance of nesting. To design and create an interactive scene.	Branching database, Database, Question, Data	than and equal to, to compare values. To use 2Calculate to collect data and	Skills
	passwords safe. To consider the truth of the content of websites.	space bar	Vocabulary		produce a variety of graphs. To use the advanced mode of 2Calculate to learn about cell references.	Vocabulary Communication, Compose, Attachment, Save to draft, CC,
	Vocabulary password, blog, concept map, username, website, webpage, spoof website, PEGI rating			R	Vocabulary <> = , Advance mode, Copy and Paste, Columns, Cells, Delete key, Equals tool, Move cell tool, Rows, Spin Tool.	Formatting





	Autumn 1 Digital Literacy	Autumn 2 Injormation	Spring 1 <u>Computer Science</u>	Spring 2 Computer Science	Summer 1 Information Technology	Summer 2 Injormation Technology
	Online Sajety	Technology Databases	Coding	Game Creator	Word Processing	Spreadsheets
Year 5	Knowledge To know the impact that sharing digital content can have. To know of sources of support when using technology and children's responsibility to one another in their online behaviour. To know how to maintain secure passwords. To know the advantages, disadvantages, permissions and purposes of altering an image digitally and the	Knowledge Know that a database is a collection of data organised in such a way that it can be searched, and information found easily. Database usually refers to data stored on computers. Skills To learn how to search for information in a database. To contribute to a class database. To create a database around	Knowledge To know how to use friction in code. To know what a function is and how functions work in code. To know what the different variables types are and how they are used differently. To know how to create a string. To know what concatenation is and how it works. To know what decomposition and abstraction are in computer science.	Knowledge Know a good game designer gives the player continuous challenges in a visually stimulating environment, each of which leads to another challenge, to keep the game challenging and fun. Skills To plan a game. To design and create the game environment. To design and create the game quest.	Knowledge To know a word processing tool is used to create, edit and print off a document. This can contain text, images, tables or charts. Documents are a type of file that portray information. Skills To know how to use word wrap with images and text. To change the look of text within a document. To add features to a	Knowledge Know a spreadsheet represents the data of a situation for example: Budgeting for a party; working out how big a field needs to be for a certain number of animals; working out how to spend your pocket money over time. Skills To use formulae within a spreadsheet to convert measurements of length and distance. To use the count tool to answer hypotheses about common
	Skills Tosearch the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information Vocabulary Encryption, Shared image, Password, Reputable, Smart rules, Plagiarism, Citations, Identity theft	a chosen topic. Vocabulary Avatar, Charts, Collaborative, Data, Database, Find, Table, Statistics and reports, Sort, Group and Arrange, Record	Skills To begin to simplify code. To create a playable game. To understand what a simulation is. To program a simulation using 2Code. To a take a real-life situation, decompose it and think about the level of abstraction. Vocabulary Action, Abstraction, Algorithm, Called, Decomposition, Event, Function, Variable, Sequence	To finish and share the game. To self and peer evaluate. Vocabulary Animation, Image, Texture, Perspective, Playability, Interactive, Screenshot, Evaluation.	document to enhance its look and usability. To use the sharing capabilities in Google Docs. To use tables within to present information. To introduce children to templates. Vocabulary Font, Cursor, Text wrapping, Merge cells, Text formatting, Text wrapping, Document	letters in use. To use a spreadsheet to model a real-life problem. To use formulae to calculate area and perimeter of shapes. To create formulae that use text variables. To use a spreadsheet to help plan a school cake sale. Vocabulary Average Function, Copy and Past, Columns, Cells, Charts, Equals tool, Formula, Formula Wizard





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	<u>Digital Literacy</u>	<u>Information</u>	Computer Science	Computer Science	<u>Computer Science</u>	Information Technology
	Online Sajety	<u>Technology</u>	Coding	Text Adventures	Understanding Binary	Blogging
		Spreadsheets				
Year	Knowledge	Knowledge	Knowledge	Knowledge	Knowledge	Knowledge
6	To identify benefits and risks of mobile devices broadcasting the location of the user/device To identify the benefits and risks of giving personal information To have a clear idea of appropriate online behaviour. To understand the importance of balancing game and screen time with other parts of their lives. To identify the positive and negative influences of technology on health and the environment Skills To identify secure sites by looking for privacy seals of approval Vocabulary Digital footprint, Password, PEGI rating, Phishing, Screen time, Spoof website	Skills To use a spreadsheet to investigate the probability of the results of throwing many dice. To use a spreadsheet to calculate the discount and final prices in a sale. To use a spreadsheet to plan how to spend pocket money and the effect of saving money. To use a spreadsheet to plan a school charity day to maximise the money donated to charity. Vocabulary Average Function, Advance mode, Copy and Paste, Columns, Cells, Charts	To understand how functions are created and called. To understand how the launch command works To understand how user input can be used in a program. To understand how 2Code can be used to make a textadventure game Skills To design a playable game with a timer and a score. To plan and use selection and variables. To use functions and understand why they are useful. To use flowcharts to create and debug code. To create a simulation of a room in which devices can be controlled Vocabulary Action, Alert, Algorithm, Background, Button, Called, Command, Co-ordinates, Debug/Debugging, Decomposition, Developer	To know that a Text-based adventure computer game that uses text instead of graphics. Skills To find out what a text adventure is. To use 2Connect to plan a story adventure. To make a story-based adventure using 2Create a Story. To introduce an alternative model for a text adventure which has a less sequential narrative. To use written plans to code a map-based adventure in 2Code. Vocabulary Text-based adventure, Concept map, Debug, Sprite, Function	To understand that binary represents numbers using 1s and 0s and these represent the on and off electrical states respectively in hardware and robotic Skills To examine how whole numbers are used as the basis for representing all types of data in digital systems. To recognise that digital systems represent all types of data using number codes that ultimately are patterns of 1s and 0s (called binary digits, which is why they are called digital systems) Vocabulary Base 10, Base 2, Binary, Bit, Byte, Decimal, Denary, Digit, Gigabyte (GB), Integer, Kilobyte (KB)	A blog is a website or webpage that is regularly updated by the author. A blog also allows the reader to post comments or opinion based on what is written. A blog can be written about any subject. You could write a blog about school such as information about the subject you are studying. Alternatively, you could write a blog about your favourite team or movie Skills To identify the purpose of writing a blog. To identify the features of a successful blog. To plan the theme and content for a blog. To understand how to write a blog and a blog post. To consider the effect upon the audience of changing the visual properties of the blog. To understand how to contribute to an existing blog. To understand how Vocabulary Audience, Blog, Blog page, Blog post, Collaborative, Icon