



	Autumn A	Spring A	Summer A	Autumn B	Spring B	Summer B
Orchard Team (Y1 and Y2)	Events Beyond Living Memory (British)	People that changed the world (range of cultures and genders)	Living Things, Their Habitats and Plants	Victorians and changes within living memory	India	Animals & Healthy Bodies
Computer Science	1-To understand what an algorithm isTo create a computer program using an algorithm. 2-To create a program using a given designTo understand the collision detection event. 3- To understand that algorithms follow a sequence. 4-To design an algorithm that follows a timed sequence. 5-To create a program using a given designTo understand the function of buttons in a program. 6-To know what debugging meansTo understand the need to test and debug a program repeatedly.			Grouping and Sorting 1:2 1-To sort items using a range of criteria 2-To sort items on the computer using the 'Grouping' activities in Purple Mash.	Lego Builders 1:4 1-To emphasise the importance of following instructions. 2-To follow and create simple instructions on the computer. 3-To consider how the order of instructions affects the result. Maze explorers 1:5 1-To understand the functionality of the basic direction keys in Challenges 1 and 2. • To be able to use the direction keys to complete the challenges successfully. 2- To understand the functionality of the basic direction keys in Challenges 3 and 4. • To understand how to create and debug a set	1-To understand what instructions are. • To predict what will happen when instructions are followed. • To understand that computer programs work by following instructions called code 2- To use code to make a computer program. • To understand what objects and actions are. 3- To understand what an event is. • To use an event to control an object. 4- To understand what an event is. • To begin to understand how code executes when a program is run. 5- To understand what backgrounds and objects are. • To





					of instructions (algorithm). 3- To use the additional direction keys as part of their algorithm. • To understand how to change and extend the algorithm listTo create a longer algorithm for an activity. 4- To provide an opportunity for the children to set challenges for each other. • To provide an opportunity for the teacher to add these challenges to a display board for the class to try.	understand how to use the scale property 6- To plan a computer program. • To make a computer program.
Information Technology	Spreadsheets 2:3 2-To review the work done in 2Calculate in year 1. • To revise spreadsheet related vocabulary. • To use some 2Calculate tools that were introduced in year 1. 2- To use copying, cutting and pasting shortcuts in 2Calculate. • To use 2Calcuate totalling tools. • To use	Questioning 2:4 1-To show that the information provided on pictograms is of limited use beyond answering simple questions 2- To use yes/no questions to separate information 3- To construct a binary tree to separate different items.	Making music 2:7 1-To be introduced to making music digitally using 2Sequence. • To explore, edit and combine sounds using 2Sequence. 2-To add sounds to a tune to improve it. • To think about how music can be used to express feelings and create tunes which depict feelings.	Pictograms 1:3 1-To understand that data can be represented in picture format. 2-To contribute to a class pictogram. 3-To use a pictogram to record the result of an experiment.	Animated story books 1:6 1-To understand the differences between traditional books and ebooks. • To explore the tools of 2Create a Story's My Simple Story level. • To save the page they have created. 2- To add animation to a picture. • To play the pages created so far. • To save the additional	Spreadsheets 1:8 1-To understand what a spreadsheet looks like. • To be able to navigate around a spread sheet and enter data. • To learn new vocabulary related to spreadsheets. 2- To add clipart images to a spreadsheet. • To use the 'move cell' and 'lock' tools.





Ecalculate to solve a
simple puzzle
3- To explore the
capabilities of a
spreadsheet in adding
up coins to match the
orices of objects
4- To add and edit data
n a table layout. • To
use the data to
manually create a block
graph.

2Calculate to solve a

4- Use 2Question (a binary tree) to answer questions

5- To use a database to answer more complex search questions. • To use the Search tool to find information.

Creating pictures 2:6

1-To explore 2Paint A
Picture. • To look at the
work of Impressionist
artists and recreate
them using the
Impressionism
template.

- 2- To look at the work of pointillist artists such as Seurat. To recreate pointillist art using the Pointillism template.

 2- To look at the work
- **3-** To look at the work of Piet Mondrian and recreate it using the Lines template.
- 4- To look at the work of William Morris and recreate it using the Patterns template 5- To look at some surrealist art and create your own using the eCollage function in 2Paint A Picture.

3-To upload a sound from a bank of sounds into the Sounds section.To record their own

- sound and upload it into the Sounds section.
- To create their own tune using the sounds which they have added to the Sounds section.

Presenting ideas 2:8

1-To explore how a

story can be presented in different ways.
2-To make a quiz about a story or a class.
3-To make a fact file on a non-fiction topic.
4-To make a presentation to the class.

changes and overwrite the file

- 3- To add a sound effect to a picture. To add a voice recording to the picture. To add created music to the picture.
- 4- To add a background to the story. • To demonstrate a good understanding of all the tools they have used in 2Create a Story and use these successfully to create their own story. **5-** To use the copy and paste feature to create additional pages. • To continue and complete an animated story. • To create a class display board of the story books created by the class

3- To use the 'speak' and 'count' tools in 2Calculate to count items.





Digital Literacy	E-Safety 2:2	Effective searching	E-Safety and	Technology
	1-To know how to	2:5	exploring Purple	outside school 1:9
	refine searches using	1-To understand the	Mash 1:1	1-To find and
	the Search tool.	terminology associated	1-To log in safely and	understand
	To know how to share	with the Internet and	understand why that is	examples of where
	work electronically	searching	important. • To create	•
	using the display	2- To gain a better	an avatar and to	technology is used
	boards. • To use digital	understanding of	understand what this is	in the local
	technology to share work on Purple Mash to	searching the Internet.	and how it is used. • To	community
	communicate and	3- To create a leaflet to	be able to create a	2- To record
	connect with others	help someone search	picture and add their	examples of
	locally.	for information on the	own name to it. • To	•
	To have some	Internet.	start to understand the	technology outside
	knowledge and		idea of 'ownership' of	school.
	understanding about		creative work. • To save	
	sharing more globally		work to the My Work	
	on the Internet.		area and understand	
	2- To introduce Email as		that this is private	
	a communication tool		space.	
	using 2Respond		2- To learn how to find	
	simulations. • To		saved work in the	
	understand how we talk		Online Work area. • To learn about what the	
	to others when they are		teacher has access to in	
	not there in front of us.		Purple Mash. • To learn	
	 To open and send 		how to see messages	
	simple online		left by the teacher on	
	communications in the		their work. • To learn	
	form of email.		how to search Purple	
	3-To understand that		Mash to find resources.	
	information put online		3- To become familiar	
	leaves a digital		with the types of	
	footprint or trail. • To		resources available in	
	begin to think critically		the Topics section. • To	
	about the information		become more familiar	
	they leave online. • To		with the icons used in	
	identify the steps that			





	can be taken to keep personal data and hardware secure			the resources in the Topics section. • To start to add pictures and text to work. 4- To explore the Tools area of Purple Mash and to learn about the common icons used in Purple Mash for Save, Print, Open, New. • To explore the Games area on Purple Mash. • To understand the importance of logging out when they have finished.		
Woodland Team (Y3 and Y4)	Autumn A Invaders & Settlers	Spring A Ancient Civilisations Romans & Egyptians	Summer A Living Things, Their Habitats and Plants	Autumn B Tudors	Spring B Spain: Costa Blanca	Summer B Animals & Healthy Bodies
Computer Science	Coding 3:1 1-To review previous coding knowledgeTo understand what a flowchart is and how flowcharts are used in computer programming. 2- To understand that there are different types of timers.	Logo 4:5 1- To learn the structure of the language of 2Logo. To input simple instructions in 2Logo 2- To use 2Logo to create letter shapes. 3- To use the Repeat command in 2Logo to create shapes.		Coding 4:1 1-To review coding vocabulary and knowledgeTo create a simple computer program. 2-To begin to understand selection in computer programmingTo understand how an IF statement works.		Hardware investigators 4:8 1-To identify and discuss the main element of music: Pulse, pitch, rhythm, tempo, texture 2- To understand and experiment with rhythm and tempo.





	-To be able to select the right type of timer for a purpose. 3- To understand how to use the repeat command. 4- To use coding knowledge to create a range of programsTo understand the importance of nesting 5/6- To design and create an interactive scene.	4- To use and build procedures in 2Logo.		3-To understand how to use coordinates in computer programming. -To understand how an IF statement works. 4- To understand the Repeat until command. -To begin to understand selection in computer programming. -To understand how an IF/ELSE statement works. 5- To understand what a variable is in programming. -To use a number variable. 6- To review vocabulary and concepts learnt in Year 4 Coding. To create a playable game.		
Information		Graphing 3:8	Spreadsheets 3:3		Presenting MS PPT	Effective search
Technology		1-To enter data into a graph and answer questions. 2-To solve an investigation and present the results in graphic form	1-To add and edit data in a table layoutTo find out how spreadsheet programs can automatically create graphs from data 2- To introduce the 'more than', 'less than' and 'equals' toolsTo introduce the 'spin' tool and show how it		3:9 1-To create a page in a presentation. 2-To add media to a presentation 3-To add animations into a presentation 4-To add timings into a presentation	4:7 1-To locate information on the search results page. 2-To use search effectively to find out information. 3-To assess whether an information source is true and reliable.





	can be used to count through times tables 3- To introduce the Advanced mode of 2CalculateTo learn about describing cells using their addresses. Animation 4:6 1- To decide what makes a good, animated film or cartoon and discuss favourite animationsTo learn how animations are created by handTo find out how 2Animate animations can be created in a similar way using technology. 2- To learn about onion skinning in animationTo add backgrounds and sounds to animations. 3- Introducing 'stop motion' animationTo share animation the class blog.	5/6-To use the skills learnt in previous weeks to design and present an effective presentation Touch Typing 3:4 1-To introduce typing terminologyTo understand the correct way to sit at the keyboardTo learn how to use the home, top and bottom row keys. 2-To practice and improve typing for home, bottom, and top rows 3- To practice the keys typed with the left hand. 4- To practice the keys typed with the right hand.
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Digital Literacy	E-Safety 3:2	Email 3:5		E-Safety 4:2	
	1-To know what makes	1-To think about the		1-To understand how	
	a safe password, how to	different methods of		children can protect	
	keep passwords safe	communication.		themselves from online	
	and the consequences	2-To open and respond		identity theft.	
	of giving your	to an email.		-To understand that	
	passwords away.	-To write an email to		information put online	
	-To understand how the	someone from an		leaves a digital	
	Internet can be used to	address book.		footprint or trail and	
	help us to communicate	3-To learn how to use		that this can aid identity	
	effectivelyTo understand how a	email safely. 4-To learn how to use		theft.	
		email safely.		2- To identify the risks	
	blog can be used to help us communicate	5-To add an attachment		and benefits of	
	with a wider audience.	to an email.		installing software	
	2- To consider if what	6-To explore a		including apps.	
	can be read on websites	simulated email		3- To understand that	
	is always true.	scenario		copying the work of	
	-To look at a 'spoof'			others and presenting it	
	website.			as their own is called	
	-To create a 'spoof'			'plagiarism' and to	
	webpage.			consider the	
	-To think about why			consequences of	
	these sites might exist			plagiarism.	
	and how to check that			-To identify appropriate	
	the information is			behaviour when	
	accurate.			participating or	
	3- To learn about the			contributing to	
	meaning of age			collaborative online	
	restrictions symbols on			projects for learning.	
	digital media and devices.			4- To identify the	
	-To discuss why PEGI			positive and negative	
	restrictions exist.			influences of	
	-To know where to turn			technology on health	
	for help if they see			and the environment.	
	inappropriate content			and the environment.	
	appropriate content		l .	L	





or have inappropriate	-To understand the	
contact from others.	importance of	
	balancing game and	
	screen time with other	
	parts of their lives.	

Forest	Autumn A	Spring A	Summer A	Autumn B	Spring B	Summer B
Forest Team (Y5 and Y6)	Changes in Britain – Stone Age to Iron Age. And Local History	Ancient Civilisations Greeks & Benin	Living Things, Their Habitats and Plants	WW2	Brazil	Animals & Healthy Bodies
Computer Science	Coding 5:1 1-To review existing coding knowledge -To begin to be able to simplify code -To create a playable game 2-To understand what a simulation is -To program a simulation using 2Code 3-To know what decomposition and abstraction are in Computer ScienceTo take a real-life situation, decompose it and think		Text adventures 6:5 1-To find out what a text-based adventure game is and to explore an example made in 2Create a StoryTo use 2Connect to plan a 'Choose your own Adventure' type story. 2- To use 2Connect plans for a story adventure to make the adventure using 2Create a Story.	Coding 6:1 1/2-To design a playable game with a timer and a score -To plan and use selection and variables -To understand how the launch command works. 3- To use functions and understand why they are useful To understand how functions are created and called.		Understanding Binary 6:8 1-To examine how whole numbers are used as the basis for representing all types of data in digital systemsTo recognise that digital systems represent all types of data using number codes that ultimately are patterns of 1s and Os (called binary digits, which is why they are called digital systems).





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about the level of		3- To introduce an	4- To use flowcharts to	-To understand that
abstraction.		alternative model for a	test and debug a	binary represents
-To use decomposition to		text adventure which	program.	numbers using 1s and
make a plan of a real life		has a less sequential	- To create a simulation	Os and these represent
situation.		narrative.	of a room in which	the on and off electrical
4-To understand how to use		4- To use written plans	devices can be	states respectively in
friction in code.		to code a map-based	controlled.	hardware and robotics.
-To begin to understand		adventure in 2Code.	5- To understand the	2- To examine how
what a function is and how			different options of	whole numbers are
functions work in code.			generating user input in	used as the basis for
5-To understand what the			2Code	representing all types of
different variable types are			- To understand how	data in digital systems.
and how they are used			user input can be used	To recognise that the
differently.			in a program.	numbers 0, 1, 2 and 3
-To understand how to			6- To understand how	could be represented
create a string.			2Code can be used to	by the patterns of two
6-To begin to explore text			make a text-based	binary digits of 00, 01,
variables when coding.			adventure game.	10 and 11
-To understand what			_	-To represent whole
concatenation is and how it				numbers in binary, for
works.				example counting in
				binary from zero to 15,
				or writing a friend's age
				in binary.
				3- To examine how
				whole numbers are
				used as the basis for
				representing all types of
				data in digital systems.
				-To represent whole
				numbers in binary, for
				example counting in
				binary from zero to 15,
				or writing a friend's age
				in binary.
				-To explore how
				division by two can be





				used as a technique to determine the binary representation of any whole number by collecting remainder terms. 4- To examine how whole numbers are used as the basis for representing all types of data in digital systems. -To represent the state of an object in a game as active or inactive using the respective binary values of 1 or 0.
Information	Concept mapping 5:7	Spreadsheets 5:3	Word processing	3D Modelling 5:6
Technology	1-To understand the need for visual representation when generating and discussing complex ideasTo understand the uses of a 'concept map'. 2-To understand and use the correct vocabulary when creating a concept map. To create a concept map. 3-To understand how a concept map can be used to retell stories and information. 4-To create a collaborative concept map and present this to an audience.	1-To use formulae within a spreadsheet to convert measurements of length and distance 2-To use the count tool to answer hypotheses about common letter use. 3-To use a spreadsheet to model a real-life problemTo use formulae to calculate area and perimeter of shapes. 4-To create formulae that use text variables. 5-To use a spreadsheet to help plan a school cake sale.	5:8 1-To know what a word processing tool is for. 2-To add and edit images to a word document. 3-To know how to use word wrap with images and text. 4-To change the look of text within a document. 5-To add features to a document to enhance its look and usability. 6-To use tables within MS Word to present information.	1-To be introduced to the 2Design and Make tool. 2-To explore the effect of moving points when designing. 3-To design a 3D model to fit certain criteria. 4-To refine and print a model.





		Blogging 6:4 1-To identify the purpose of writing a blogTo identify the features of successful blog writing. 2- To plan the theme and		Databases 5:4 1-To learn how to search for information in a database 2-To contribute to a class database	
		content for a blog. 3- To understand how to write a blog and a blog postTo consider the effect upon the audience of changing the visual properties of the blog.		%-To create a database around a chosen topic.	
		-To understand how to contribute to an existing blog 4- To understand the importance of commenting on blogsTo peer-assess blogs against the agreed success criteriaTo understand how and			
		why blog posts and comments are approved by the teacher.			
Digital Literacy	E-Safety 5:2 1-To gain a greater understanding of the impact that sharing digital content can have		E-Safety 6:2 1-To identify benefits and risks of mobile devices broadcasting the location of the		
	-To review sources of support when using technology.		user/device, e.g., apps accessing location. -To identify secure sites by looking for privacy		





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-To review children'		seals of approval, e.g.,	
responsibly to one another		https, padlock icon.	
in their online behaviour.		-To identify the benefits	
2-To know how to maintain		and risks of giving	
secure passwords.		personal information	
-To understand the		and device access to	
advantages, disadvantages,		different software.	
permissions, and purposes of		2- To review the	
altering an image digitally		meaning of a digital	
and the reasons for this.		footprint and	
-To be aware of appropriate		understand how and	
and inappropriate text,		why people use their	
photos and videos and the		information and online	
impact of sharing these		presence to create a	
online.		virtual image of	
3-To learn about how to		themselves as a user.	
reference sources in their		-To have a clear idea of	
work.		appropriate online	
-To search the Internet with		behaviour and how this	
a consideration for the		can protect themselves	
reliability of the results of		and others from	
sources to check validity and		possible online dangers,	
understand the impact of		bullying and	
incorrect info.		inappropriate	
4-Ensuring reliability through		behaviour.	
using different methods of		-To begin to understand	
communication.		how information online	
		can persist and give	
		away details of those	
		who share or modify it.	
		3- To understand the	
		importance of	
		balancing game and	
		screen time with other	
		parts of their lives, e.g.,	
		explore the reasons	
		why they may be	





		tempted to spend more	
		time playing games or	
		find it difficult to stop	
		•	
		playing and the effect	
		this has on their health.	
		-To identify the positive	
		and negative influences	
		of technology on health	
		and the environment.	