						Computing Progression Tracke
Y1	Online Safety/exploring PM (mostly	Grouping and	Pictograms	Maze	Animated story	Technology outside of
	knowledge)	sorting		explorers/coding	<mark>books</mark>	<mark>school</mark>
		- To sort items	- To understand that			(mostly knowledge based)
	-To log in safely. To start to	using a range of	data can be	-To understand the	-To create	
	understand the idea of 'ownership' of	criteria.	represented in picture	functionality of	characters and story.	-To understand what is
	their creative work.	- To sort items on	format.	basic direction		meant by 'technology'
	-To learn how to find saved work in	the computer	- To contribute to a	keys.	-To add animations	
	the Online Work area and find	using the	class pictogram.			-To have an awareness of
	teacher comments.	'Grouping'	- To use a pictogram	-To debug an	-To modify	technology outside of
	-To learn how to search Purple Mash	activities in Purple	to record the results	algorithm.	backgrounds	school
	to find resources.	Mash.	of an experiment.		-	
	-To become familiar with the types of			-To modify and	-To sequence	
	resources available in the Topics			sequence	animations and	
	section.			algorithms	share e-books.	
	-To become more familiar with the					
	icons used in the resources in the					
	Topics section.					
	-To start to add pictures and text to					
	work.					
	-To explore the Tools section of					
	Purple Mash and to learn about the					
	common icons used in Purple Mash					
	for Save, Print, Open, New. To					
	explore the Games section on Purple					
	Mash.					
	-To understand the importance of					
	logging out when they have finished					
Y2	Coding	Online safety	Questioning	Presenting ideas	Creating pictures	
	-To understand what is meant by	(mostly				
	coding (knowledge)	knowledge)	-To understand that	-To explore how a	- To be introduced	
	-To modify and sequence a	-To know how to	the information on	story can be	to 2Paint a	
	programme where objects can stop	refine searches	pictograms cannot be	presented in	Picture.(knowledge)	
	moving and a sound is played.	using the Search	used to answer more	different ways	-To look at the	
	-To explain how to use the following	tool.	complicated	(knowledge).	impressionist style	
	terms in a computer program:	-To know how to	questions.(knowledge)	- To create and	of art (Monet,	
	Command, Repeat, Input, Output,	share work	- To separate and	design a quiz about	Degas, Renoir).	
		electronically using	modify information.		(knowledge)	

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Event, Collision Detection and Timer	the display boards.	- To create a binary	a story or class		
(knowledge)	-To use digital	tree to separate	topic.	- To recreate	
-Pupils can sequence a computer	technology to	different items.	- To create and	pointillist art and	
program including at least four of the	share work on	-To use a binary tree	design a fact file	look at the work of	
above new coding vocabulary terms	Purple Mash to	to answer questions.	on a nonfiction	pointillist artists	
-To understand what debug means	communicate and	- To use a database to	topic.	such as Seurat	
(knowledge)	connect with	answer more complex	- To <mark>create</mark> a	- To look at the work	
-To debug.	others locally.	search questions.	presentation to	of Piet Mondrian	
-To sequence a programme using	- To have some	- To use the Search	the class.	and recreate it using	
different objects.	knowledge and	tool to find		the Lines template.	
	understanding	information.		- To look at the work	
	about sharing			of William Morris	
	more globally on			and recreate it using	
	the Internet.			the Patterns	
	-To understand			template.	
	that Email is a				
	form of				
	communication.				
	- To understand				
	how we talk to				
	others when they				
	are not there in				
	front of us.				
	- To open, input				
	send simple an				
	email.				
	-To understand				
	that information				
	put online leaves a				
	digital footprint or				
	trail.				
	-To begin to think				
	critically about the				
	information they				
	leave online.				
	-To identify the				
	steps that can be				

		taken to keep personal data and				
		hardware secure.				
Y3	Coding	Em <mark>ail</mark>	Branching databases	Simulations	Spreadsheets	Touch typing
	 -To understand what coding is. (knowledge) - To use 2Chart to represent a sequential program design. - To use the design to write the code for the program. -To design and write a program that simulates a physical system. -To look at the grid that underlies the design and relate this to X and Y properties. -To use a variable to create a timer. To create a program with an object that repeats actions indefinitely and use the repeat command. - To debug simple programs. 	 To think about different methods of communication (knowledge). To open and respond to an email. To learn how to use email safely (knowledge). To add an attachment to an email. To explore a simulated email scenario. 	 To sort objects. To complete a branching database To create a branching database. 	 -To consider what simulations are (knowledge). - To explore a simulation, try out different options and to test predictions. -To create a simple simulation. 	-To create pie charts and bar charts. -To use tools to compare numbers. -To describe and find cell locations.	 To introduce typing terminology (knowledge). To practice and improve typing.
Υ4	Coding - To review coding vocabulary (knowledge). - To use the design to create a program. -To create a programme and manipulate variables. -To know what decomposition and abstraction are in computer science (knowledge). -To take a real-life situation, decompose it and think about the level of abstraction. - To design a decomposed feature of a real-life situation.	Internet safety (mostly knowledge) -To understand how pupils can protect themselves from online identity theft. -To understand that information put online leaves a digital footprint or trail and that this	Spreadsheets - To appropriately format numbers. -To use a series of data in a spreadsheet to create a line graph. - To make practical use of a spreadsheet to help them plan actions (knowledge). - To explore place value using a spreadsheet (knowledge).	Animation - To understand animation frames (knowledge) To create a simple animationTo understand what onion skinning is (knowledge)To add backgrounds and sounds to animations.	Hardware investigators (knowledge) - To understand the different parts that make up a computer. - To recall the different parts that make up a computer.	Writing for different audiences -To explore the impact of different text sizes. - To create a news report. -To create a campaign.

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		can aid identity		-To use stop		
		theft.		motion to create		
		- To Identify the		an animation.		
		risks and benefits				
		of installing				
		software including				
		apps.				
		- To understand				
		that copying the				
		work of others and				
		presenting it as				
		their own is called				
		'plagiarism' and to				
		consider the				
		consequences of				
		plagiarism.				
		- To identify				
		appropriate				
		behaviour when				
		online.				
		-To identify the				
		positive and				
		negative influences				
		of technology.				
		- To understand				
		the importance of				
		balancing game				
		and screen time				
		with other parts of				
		their lives.				
Y5	Coding	Online safety	<mark>Spreadsheets</mark>	Game creator	<mark>Concept maps</mark>	
	-To review coding vocabulary (knowledge).	(mostly	- create a formula in a			
	-To create a programme	knowledge)	spreadsheet to	-To consider what	- To know	
	- To design and write a program that	- To understand	convert m to cm	games are like	what a	
	simulates a physical system	the impact that	- apply this to creating	(knowledge)	concept map	
	- To explore text variables	sharing digital	a spreadsheet that	- To design the	is	
	(knowledge)	content can have		game environment	(knowledge)	

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	 To create a playable, competitive game To read code (knowledge) To create a program to inform others. 	 To review pupils' responsibility to one another in their online behaviour To know how to maintain secure passwords To be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online To learn about how to reference sources in their work To search the Internet with a consideration for the reliability of the results of sources to check validity and understand the impact of incorrect information. 	converts miles to km and vice versa. -To use a spreadsheet to work out which letters appear most often - To use the 'how many' tool - to solve a real-life problem using a spreadsheet - can use a spreadsheet to model a real-life situation and come up with solutions that can be practically applied	- To evaluate their and peers' games (knowledge)	 To understand and use the correct vocabulary when creating a concept map. To create a collaborative concept map and present this to an audience. 	
Y6	Coding -To design programs using their choice of objects, attributing specific actions to each using their new programming knowledge - To use manipulate variables within a game	Online safety (mostly knowledge) - Identify benefits and risks of mobile devices broadcasting	Spreadsheets -To create a spreadsheet. - To use a spreadsheet to model real life situations. -To create, manipulate and modify formulas.	Blogging -To identify the purpose of vlogs. -To understand how to contribute to an existing blog. -To understand how and why blog	Networks (mostly knowledge) -To find out what a LAN and a WAN are. To find out how we access the internet in school.	

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- To debug a program and organise	- Identify secure	posts are approved	-To research and	
the code into tabs	sites by looking for	by the teacher.	find out about the	
- To organise code into functions and	privacy seals of	-To peer-assess	age of the internet.	
Call functions to eliminate surplus	approval, e.g.	blogs against the	To think about what	
code in the program	https, padlock icon	agreed success	the future might	
- To use flowcharts to test and debug	- To review the	criteria.	hold.	
a program.	meaning of a			
- To create a simulation of a room in	digital footprint			
which devices can be controlled	-			
-To design a text-based adventure				
game.				

Strand:

Digital citizenship

IT Computer Science

Skill:

Sort and group

Data handling/input

Debug

modify and sequence

design

predict

create

manipulate

decompose