

## INTENT:

We believe that skills in computing are fundamental to children's learning and should be incorporated into all areas of the curriculum wherever possible. It is recognised that we have a responsibility to encourage digital literacy in all pupils so support the present and in preparation for their future. New technologies require children to be able to interact fully with computers, laptops, tablets and a growing number of other devices, programs and software in order to fully support their learning in a number of contexts. It is recognised that the level of expectation on children's capabilities for using new technologies is rising particularly within the new National Curriculum for Computing with its strong emphasis on computer science and computer programming skills which we teach through the Purple Mash scheme.

## <u>EYFS</u>

To understand technology needs to be programmed. Use IPads, tonie box, telephones and cameras.

## Online safety

While using iPads teachers will ensure child safety restrictions will be on.

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Online safety	Online safety	Online safety	Online safety	Online safety	Online safety
Login using their own login	Begin to understand how	Create a strong password.	Understand that security	Use the SMART rules as a source of	Recall and research the risks online
and logout, explaining why	things are shared	Contribute to a class blog	symbols such as a padlock	guidance when online.	including sharing location, secure
this is important.	electronically for others	with clear and appropriate	protect their identity online to		websites, spoof websites, phishing
	to see.	messages.	prevent identify theft.	Think critically about what they share	and other email scams.
Open, save, share and				online, even when asked by a usually	
print work.	Send an email to a	Understand how to search	Understand that malware is	reliable person to share something.	Recall and research the steps they
	character.	the Internet and how to	software that is specifically	Have clear ideas about good	can take to protect themselves
		think critically about the	designed to disrupt, damage,	passwords.	including protecting their digital
	Explain what a digital	results that are returned.	or gain access to a computer.		footprint, where to go for help,
	footprint is and give		Determine whether activities	Have experienced how image	smart rules and security software.
	examples of things that	Identify some physical and	that they undertake online,	manipulation could be used to upset	
	they wouldn't want to	emotional effects of	infringe another's' copyright.	them or others even using simple,	

	be in their digital footprint.	playing/watching inappropriate content/games. Relate cyberbullying to bullying in the real world and have strategies for dealing with online bullying including screenshot and reporting.	Make conscious decisions about how to behave appropriately online and what to do if they feel unsafe or uncomfortable online. Take more informed ownership of the way that they choose to use their free time; recognising a need to find a balance between being active and digital activities.	freely available tools and little specialist knowledge. Cite all sources when researching and explain the importance of this. Select keywords and search techniques to find relevant information and increase reliability Show an understanding of the advantages and disadvantages of different forms of communication and when it is appropriate to use each.	Understand how what they share impacts upon themselves and upon others in the long-term. Understand the consequences of promoting inappropriate content online, and how to put a stop to such behaviour when they experience it or witness it as a bystander. Take more informed ownership of the way that they choose to use their free time; recognising a need to find a balance between being active and digital activities.
Sorting, collecting and grouping data. Recording these results.	Using an algorithm the repeat and timer commands.	Design, write and debug a program with an object that repeats actions.	Explain what a variable is when used in programming.	Create a game using coding including timer and score pad.	Create a simulation in which devices can be controlled.
Organise instructions for a simple recipe using an algorithm. Using directional keys, and	Create a table of data on a spreadsheet and use the data to create a block graph.	Use a spreadsheet program to create charts and graphs from data. Describe a cell location in a	Using an algorithm, to make a simulation of an event and remove unwanted details. Understand why security	Understanding of the advantages and disadvantages of different forms of communication and when it is appropriate to use each.	Use a spreadsheet to model a real- life situation and come up with solutions that can be applied to real life.
debug it. Create an e-storybook that	Use a database to	spreadsheet.	symbols are used and what malware is.	Use a spreadsheet to model a real-life situation and come up with solutions	Create a blog with a specific purpose, evaluate its effectiveness.
includes text, sound and additional pages.	answer simple and more complex search questions.	Use two hands to type the letters on the keyboard. Read and respond to a	Make conscious decisions about how to behave appropriately online and what	that can be practically applied. Create their own database. Design and evaluate the setting and	Create and debug their own text- based adventure based upon a map.
Explain what coding means. Design a scene with character that will perform	Learn how to effectively search online. Create art based upon	series of email communications and attach files appropriately.	to do if they feel unsafe or uncomfortable online. Recognising a need to find a	characters for a game. Explore how to edit polygon 3D models to design a 3D model for a	Understand the difference between the World Wide Web and the Internet.
basic actions.	impressionism, pointillism, abstract and surrealism.	Explore branching database, stimulations.	and digital activities.	purpose.	Know about their school network.

Create a spreadsheet that		Solve a maths investigation	Use data in a spreadsheet to	Use a concept map to create an	
can count images as	Create their own tune to	and present the results in a	create a line graph.	informative text.	
values.	express feelings using	range of graphical formats.			
	chosen sounds.		Use text formatting to make a		
Name and record some			piece of writing fit for its		
types of technology used	Collect, organise and		audience and purpose.		
in school and out of	present data combining				
school.	software packages.		Recreate their own animation.		
			Locate and analyse content on		
			a web page to check		
			credibility.		