## **Key End Points - for end of year**

## Park Primary Comool

## **Subject: Computing**

## Ready to Progress Criteria...

	Knowledge	Skills
EYFS	Computer Systems & Networks 1:  I understand what a computer keyboard is and what some keys do I know how to log in and out of a computer  Programming 1 I know how to give and follow simple instructions  Computer Systems & Networks 1: I know that you use an iPad or camera to take photos  Programming 2: I know what debugging and an algorithm mean  Data Handling: I know how to why sorting information is important using a pictogram I know that using yes/no is known as a branching database	Computer Systems & Networks:  I can use a mouse to click, drag and create simple drawings  Programming 1  I can give instructions in the right order  Computer Systems & Networks 1:  I can hold a camera still and ensure the subject is in shot when I take a photo  Programming 2:  I can program a bee bot with simple commands
Year 1	Computer Systems & Networks 1:  I know what it means to log and log out I know that passwords are important for security  Programming 1  I understand what an algorithm is I know what input and output devices are I know what decomposition and debugging is  Skills Showcase  I know that sharing something created on a computer is easier than paper I know that a spreadsheet is an electronic table  Programming 2:  I know that algorithms move a bee bot to chosen location  Creating Media: I know why searching safely online is important  Data Handling: I know that computers have different types of input	Computer Systems & Networks 1:  I can use a mouse to click, drag, select, fill, select and also add backgrounds, text, layers and shapes  Programming 1  I can give instructions in the right order  Skills Showcase  I can use the simple graphic design features of an online software  Programming 2:  I can carry out the basic functions of a bee bot  I can use an iPad or camera to make simple videos.  Creating Media:  I can use a camera and change the lighting to change the quality of an image  I can edit, crop and filter photographs  Data Handling:  I can create charts and pictograms on a computer  I can create a branching database
Year 2	Computer Systems & Networks 1:  I know the difference between a desktop and laptop I know that computers often work together  Programming 1  I know what machine learning is I know what a loop and abstraction is  Computer Systems & Networks 2: I know that touch-typing is the fasted way to type. I know what copy and paste does  Programming 2:  I know what coding is I understand a character in Scratch is controlled by programming blocks  Creating Media: I understand what animation is I understand the small changes in a frame will create a smoother animation  Data Handling: I understand that spreadsheet is electronic table for data To know what data to use to answer questions.	Computer Systems & Networks 1:  I can name some input devices that give a computer instructions on what to do  Programming 1  I can program a loop  I can remove unnecessary instructions in a program to help sole a problem  Computer Systems & Networks 1  I can make a text a different, size, color and font  I can copy and paste  Programming 2:  I can write program to move a character  I can write a program to get a character to play an instrument or tell a joke.  Creating Media:  I can create a simple stop motion animation  I can improve a simple stop motion animation  I can enter data into a spreadsheet  I can follow steps to create an algorithm

Year 3	Computer Systems & Networks 1:	Computer Systems & Networks 1:
Teal 3	I know what a network is and how the school network is organized	I can explain a websites journey
	I know how the internet uses networks to share files	Programming 1
	I know that router connects us to the internet	I can use some of the basic programming features of scratch
	I know what a packet is	I can program a loop
	Programming 1	I can remix and adapt existing code
	<ul> <li>I understand how decomposition is used in programming</li> </ul>	Computer Systems & Networks 2
	Computer Systems & Networks 2	I can log in and out of an email
	I understand the email stands for electronic mail	I can send, edit and receive email
	I know what an attachment is	I can add attachments
	<ul> <li>I understand that emails should contain appropriate and respectful content</li> </ul>	Computer Systems & Networks 3:
	Computer Systems & Networks 3:	I can explain what an algorithm is
	<ul> <li>I know the roles input and outputs play on computers</li> </ul>	I can make comparisons between different types of computers
	I know what some of the components inside a computer are	Creating Media:
	<ul> <li>I know the difference between a tablet, laptop and desktop</li> </ul>	I can edit and import videos
	Creating Media:	I can add transitions and text to my video
	<ul> <li>I know the effect of different camera shots on the quality of video.</li> </ul>	Data Handling:
	Data Handling:	I can put values into a spreadsheet
	I know what a database is	I can compare paper and computerized databases
	I understand the uses of a computer database	I can sort, filter and interpret data on a spreadsheet
	I know that different visuals for data can be made on a computer	I can create a graph on excel
Year 4	Computer Systems & Networks 1:	Computer Systems & Networks 1:
Teal 4	I understand that software can be used collaboratively online for teamwork	I can use images, text, transition and animations in presentation slides
	I understand what types of comments are helpful on a shared document	I can create a shared document
	Programming 1	I can create a google form to be shared.
	I know what a variable is	Programming 1
	I know what conditional statement is	I can create a variable and use it to record a score
	<ul> <li>I understand that variable can be used to create a quiz on Scratch</li> </ul>	Create a simple script in scratch
	Programming 2	Programming 2
	<ul> <li>I know what computational thinking skills are</li> </ul>	I can create a simple game
	I know what pattern recognition is	I can create a scratch program that draws a square and one other shape
	I understand the uses of an algorithm	Skills Showcase:
	Skills Showcase :	I can identify HTML tags
	I understand what HTML is	I can change the HTML and CSS of a website
	<ul> <li>I understand what changing the HTML and CSS of a website does</li> </ul>	I can use the inspect element tool
	I understand what copyrighted means	I can change the elements of website such as image, text and color
	<ul> <li>I understand what fake news is and how to tell what is and isn't.</li> </ul>	<ul> <li>I can add text between a heading and main paragraph on a website</li> </ul>
	Creating Media:	Creating Media:
	I know that a website is a collection of pages that are all connected	I can use most of the tabs on Google Sites
	I understand the features of a website	I can create a clear plan for a website and create it
	<ul> <li>I understand that website should be informative and interactive.</li> </ul>	I can create an informative website with four interactive webpages
	Data Handling:	Data Handling:
	I understand that computers use different forms of input to sense weather	I can design a weather machine that gathers and records sensor data
	I understand that a weather machine is automated to respond to changes	I can design an automated machine that responds to sensor data
	<ul> <li>I understand that weather forecasted use scripts and specific language</li> </ul>	I can create a video which included weather forecast information

Year 5	Computer Systems & Networks 1:	Computer Systems & Networks 1:
Teal 3	I know how search engines work	I can create a posted explaining what copyright and fair use mean
	I understand that anyone can make a website so validity should be checked	I can make parallels between book searching and internet searching
	I know what web crawlers are	Programming 1
	I understand what copyright is	I can explain the basic commands of scratch
	Programming 1	I can create a piece of music that includes a loop, live samples and link musical concepts
	I know what a soundtrack is	Dash Robots:
	I understand the use of loops in music	I can program a dash robot
	I how to adapt music for performing	I can program dash robot to complete a maze and draw letters and shapes.
	Dash Robots:	I can make the Dash Robot dance
	I understand how to use block based programming	Programming 2:
	I understand what an input and out are	I can clip blocks together and predict what is going to happen
	Programming 2:	I can create my own image to make animations
	I understand that a micro bit is programmable device	I can identify inputs and outputs
	<ul> <li>I know that micro bit uses a similar coding language to scratch</li> </ul>	I can choose appropriate blocks to complete the program
	<ul> <li>I know how to recognize coding structures including variables</li> </ul>	I can carry out decomposition
	I know what decomposition is	Creating Media:
	Creating Media:	I can create a toy with simple images with a simple movement
	I know that decomposition is important to creating stop motion	I can create a short stop motion with small changes between the images
	I know that data for digital images is compressed	I can add effects such as extending parts and titles
	<ul> <li>I know the difference between RAM and ROM</li> </ul>	Data Handling:
	<ul> <li>I know the various techniques that will improve the design of 3D project</li> </ul>	I can identify some of the data that the Mars Rover can collect
	Data Handling:	I can read any number in binary up to 8 bits
	I understand what the Mars Rover is and how it collects data	I can identify input, processing and output on the mars rover
	<ul> <li>I understand what binary code looks like</li> </ul>	I can do binary additions
	I know what RAM is	I can relate binary signals
	<ul> <li>I know what simple operations can be used to calculate bit patterns</li> </ul>	
		Computer Systems & Networks 1:
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Year 6	Computer Systems & Networks 1:  • I understand the importance of having a secure password	I can create a simple poster about Bletchley Park
Year 6	Computer Systems & Networks 1:  I understand the importance of having a secure password  I know about the first computer created at Bletchley Park and their uses	<ul> <li>I can create a simple poster about Bletchley Park</li> <li>I can present information about historical figures</li> </ul>
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• I know the difference between Wi-Fi and Mobile Data