	Autumn Term  Networks and systems  Logging in and Typing skills	Spring Term Creating Media Digital Painting using Paintz Digital Writing using Microsoft Word	Summer Term Programming A using Code and Go Mouse Programming B using Scratch Jr. on the iPads.
	- Identify technology - Identify a computer and its main parts - Use a mouse in different ways - Use a keyboard to type on a computer - Use the keyboard to edit text - Create rules for using technology responsibly  Typing Games Practice logging in Resources to teach username and password log ins	- Describe what different freehand tools do  - Use the shape tool and the line tools - Make careful choices when painting a digital picture  - Explain why I chose the tools I used - Use a computer on my own to paint a picture  - Compare painting a picture on a computer and on paper - Use a computer to write	-Explain what a given command will do -Act out a given word -Combine forwards and backwards commands to make a sequence -Combine four direction commands to make sequences -Plan a simple program -Find more than one solution to a problem -Choose a command for a given purpose
Year		- Add and remove text on a computer - Identify that the look of text can be changed on a computer - Make careful choices when changing text - Explain why I used the tools that I chose - Compare typing on a computer to writing on paper	-Show that a series of commands can be joined together -Identify the effect of changing a value -Explain that each sprite has its own instructions -Design the parts of a project -Use my algorithm to create a program
		Alternate weeks between both Word and Paintz	

		umculum Coverage by 1	
	Autumn Term	Spring Term	Summer Term
	Creating Media- Digital Photography using iPads	Data and Information- Pictograms	Programming B- Lego Spike
	Creating Media- Making music	Programming A- An introduction to quizzes	
Year 2	- Use a digital device to take a photograph - Make choices when taking a photograph - Describe what makes a good photograph - Decide how photographs can be improved - Use tools to change an image - Recognise that photos can be changed  -Say how music can make us feel Identify that there are patterns in music - Show how music is made from a series of notes - Show how music is made from a series of notes - Create music for a purpose - Review and refine our computer work	-Recognise that we can count and compare objects using tally charts.  - Recognise that objects can be represented as pictures  - Create a pictogram  - Select objects by attribute and make comparisons  - Recognise that people can be described by attributes  - Explain that we can present information using a computer  - Describe a series of instructions as a sequence  - Explain what happens when we change the order of instructions  - Use logical reasoning to predict the outcome of a program (series of commands)  - Explain that programming projects can have code and artwork  - Design an algorithm  - Create and debug a program that I have written	-Explain that a sequence of commands has a start -Explain that a sequence of commands has an outcome -Create a program using a given design -Change a given design -Create a program using my own design -Decide how my project can be improved  Lego Spike Great Adventures x7 lessons

Autumn	Spring Summer
Creating Media- Desktop P	Programming A- Sequence in music Creating Media- Animation  Programming B- Events and Actions
-Create a project from a task descri - Recognise how text and images co information - Recognise that text and layout car - Choose appropriate page settings - Add content to a desktop publishir - Consider how different layouts car purposes - Consider the benefits of desktop p	- Recognise that a sequence of commands can have an order - Change the appearance of my project - Identify and fix bugs in a program

Creating Media- Audio Editing Creating Media- Photo Editing  -Identify that sound can be digitally recorded - Use a digital device to record sound - Explain that a digital recording is stored as a file - Explain that audio can be changed through editing - Show that different types of audio can be combined and played together - Evaluate editing choices made  - Explain that digital images can be changed - Change the composition of an image - Describe how images can be changed for different uses - Make good choices when selecting different tools - Recognise that not all images are real - Evaluate how changes can improve an image	Computing - National Ci		
- Use a digital device to record sound - Explain that a digital recording is stored as a file - Explain that audio can be changed through editing - Show that different types of audio can be combined and played together - Evaluate editing choices made  - Explain that digital images can be changed - Change the composition of an image  - Use a digital device to record sound - Create a program in a text-based language - Explain what 'repeat' means - Explain what 'repeat' means - Modify a count-controlled loop to produce a given outcome - Decompose a task into small steps - Create a program that uses countcontrolled loops to produce a given outcome  - Explain that digital images can be changed - Change the composition of an image  - Use a digital device to record sound - Explain that a digital recording is stored as a file - Create a program in a text-based language - Explain what 'repeat' means - Modify a count-controlled loop to produce a given outcome - Decompose a task into small steps - Create a program that uses countcontrolled loops to produce a given outcome - Create a project that includes repetition		<b>Spring</b> Programming- FMS Logo	Summer Programming- Lego Spike
	- Use a digital device to record sound - Explain that a digital recording is stored as a file - Explain that audio can be changed through editing - Show that different types of audio can be combined and played together - Evaluate editing choices made  - Explain that digital images can be changed - Change the composition of an image - Describe how images can be changed for different uses - Make good choices when selecting different tools - Recognise that not all images are real	important - Create a program in a text-based language - Explain what 'repeat' means - Modify a count-controlled loop to produce a given outcome - Decompose a task into small steps - Create a program that uses countcontrolled loops to produce a given	loops in a different programming environment - Explain that in programming there are infinite loops and count controlled loops - Develop a design that includes two or more loops which run at the same time - Modify an infinite loop in a given program Design a project that includes repetition - Create a project that includes repetition  Lego Spike

Autumn Creating Media- Vector Drawings Data and Information	Spring Programming- Crumble controllers	Summer Programming- Lego Spike Creating media- Video production
-Identify that drawing tools can be used to produce different outcomes  - Create a vector drawing by combining shapes  - Use tools to achieve a desired effect  - Recognise that vector drawings consist of layers  - Group objects to make them easier to work with  - Evaluate my vector drawing   - Use a form to record information  - Compare paper and computer-based databases  - Outline how grouping and then sorting data allows us to answer questions  - Explain that tools can be used to select specific data  - Explain that computer programs can be used to compare data visually  - Apply my knowledge of a database to ask and answer real-world questions	-Control a simple circuit connected to a computer  - Write a program that includes count-controlled loops  - Explain that a loop can stop when a condition is met  - Explain that a loop can be used to repeatedly check whether a condition has been met  - Design a physical project that includes selection  - Create a program that controls a physical computing project	Lego Spike Quirky Creations x8 lessons  -Explain how selection is used in computer programs -Relate that a conditional statement connects a condition to an outcome -Explain how selection directs the flow of a program -Design a program which uses selection - Create a program which uses

	Autumn Creating Media- Newsletters/Websites Programming- Crumble Controllers	Spring Creating Media- Tinkercad Data and Information	<b>Summer</b> Programming- Lego
Year 6	-Review an existing website and consider its structure - Plan the features of a web page - Consider the ownership and use of images (copyright) - Recognise the need to preview pages - Outline the need for a navigation path  -Define a 'variable' as something that is changeable - Explain why a variable is used in a program - Choose how to improve a game by using variables - Design a project that builds on a given example - Use my design to create a project - Evaluate my project	-Use a computer to create and manipulate 3D digital objects - Compare working digitally with 2D and 3D graphics - Construct a digital 3D model of a physical object - Identify that physical object can be broken down into a collection of 3D shapes - Design a digital model by combining 3D objects - Develop and improve a digital 3D model  -Identify questions which can be answered using data - Explain that objects can be described using data - Explain that formulas can be used to produce calculated data - Apply formulas to data, including duplicating - Create a spreadsheet to plan an event - Choose suitable ways to present data	Lego Spike Crazy Carnival Games x7 lessons  -Create a program to run on a controllable device - Explain that selection can control the flow of a program - Update a variable with a user input -Use an conditional statement to compare a variable to a value -Design a project that uses inputs and outputs on a controllable device -Develop a program to use inputs and outputs on a controllable device.