



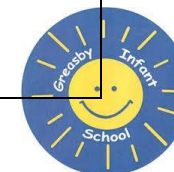
Computing Overview and Progression Grid

F1	<p>Topics to be covered over the year: N/A</p> <p>(As a school, we always follow a child's line of enquiry within their learning, which can direct the topics too.)</p>
Vocabulary	laptop, screen, you tube, Tapestry, camera, phone, ipad, photograph, light box
Through Direct Teaching and Continuous Provision	<ul style="list-style-type: none"> • Access games and songs through the whiteboard • Use the light box to investigate objects • Use an iPad to take photographs • Use toy tills, phones etc through role play • Use an iPads to play educational games
By the end of F1 children will be able to:	Use ICT to support their learning. The children will be able to take photographs and play games using an iPad. The children will be able to talk about how we use computers in our daily lives.

Tell me three things!

Tell me three things!		
I can tell you 1 thing you can use a computer for.	I can take a photograph with an iPad	I can tell show you how to use the light box

F2	Topics to be covered over the year: (As a school, we always follow a child's line of enquiry within their learning, which can direct the topics too.)
Vocabulary	iPad, cursor, drag, drop, program, position, safety, interactive white board, keypad
Through Direct Teaching and Continuous Provision	iPads to practise key skills using different apps Take photographs of their work and their peers Use beebots for position and direction and begin programming them Be reminded of keeping safe on devices Use technology within their role play Use technology to find pit information
By the end of Foundation 2 children will be able to:	Programme a Beebot to move forward and backwards Draw a recognisable picture using an ipad Use the IWB to play maths/English games Record their work using technology



Tell me five things!

Show me how to use an iPad to record my work	Show me how to program the Beebot	Tell me how I can use a computer to find out information	Show me how to play find a learning game on the IWB	Tell me what an app is
--	-----------------------------------	--	---	------------------------



Year 1	Topics to be covered over the year:		
Vocabulary	<p>Computer Systems and Network: technology, computer, mouse, trackpad, keyboard, screen, double-click, typing.</p> <p>Creating Media: paint program, tool, paintbrush, erase, fill, undo, shape tools, line tool, fill tool, undo tool, colour, brush style, brush size, pictures, painting, computers</p> <p>Programming: ScratchJr, command, sprite, compare, programming, area, block, joining, start, run, program, background, delete, reset, algorithm, predict, effect, change, value, instructions, design.</p>		
Online Safety	Computer Systems and Network: Technology Around Us	Creating Media: Digital Painting	Programming: Programming Animations
<p>I know I should not share my personal information online (my name or where I live).</p> <p>I know I should always ask an adult before I use an online game or technology.</p> <p>I know to tell an adult if I don't like something I see.</p> <p>I can name adults in school I could trust to help me.</p>	<p>I can explain technology as something that helps us</p> <p>I can locate examples of technology in the classroom</p> <p>I can explain how these technology examples help us</p> <p>I can explain where to go for help when I have concerns about content or contact when online</p> <p>I can name the main parts of a computer</p> <p>I can switch on and log into a computer</p> <p>I can use a mouse to click and drag</p>	<p>I can make marks on a screen and explain which tools I used</p> <p>I can draw lines on a screen and explain which tools I used</p> <p>I can use the paint tools to draw a picture</p> <p>I can make marks with the square and line tools</p> <p>I can use the shape and line tools effectively</p> <p>I can use the shape and line tools to recreate the work of an artist</p>	<p>I can find the commands to move a sprite</p> <p>I can use commands to move a sprite</p> <p>I can compare different programming tools</p> <p>I can use more than one block by joining them together</p> <p>I can use a Start block in a program</p> <p>I can run my program</p> <p>I can find blocks that have numbers</p> <p>I can change the value</p>

	<p>I can use a mouse to open a program</p> <p>I can click and drag to make objects on a screen</p> <p>I can use a mouse to create a picture</p> <p>I can say what a keyboard is for</p> <p>I can type my name on a computer</p> <p>I can save my work to a file</p> <p>I can open my work from a file</p> <p>I can use the arrow keys to move the cursor</p> <p>I can delete letters</p> <p>I can identify rules to keep us safe and healthy when we are using technology in and beyond the home</p> <p>I can give examples of some of these rules</p> <p>I can discuss how we benefit from these rules</p>	<p>I can choose appropriate shapes</p> <p>I can make appropriate colour choices</p> <p>I can create a picture in the style of an artist</p> <p>I can explain that different paint tools do different jobs</p> <p>I can choose appropriate paint tools and colours to recreate the work of an artist</p> <p>I can say which tools were helpful and why</p> <p>I can make dots of colour on the page</p> <p>I can change the colour and brush sizes</p> <p>I can use dots of colour to create a picture in the style of an artist on my own</p> <p>I can explain that pictures can be made in lots of different ways</p>	<p>I can say what happens when I change a value</p> <p>I can show that a project can include more than one sprite</p> <p>I can delete a sprite</p> <p>I can add blocks to each of my sprites</p> <p>design the parts of a project</p> <p>I can choose appropriate artwork for my project</p> <p>I can decide how each sprite will move</p> <p>I can create an algorithm for each sprite</p> <p>I can use sprites that match my design</p> <p>I can add programming blocks based on my algorithm</p> <p>I can test the programs I have created</p>
--	---	--	---

		<p>I can spot the differences between painting on a computer and on paper</p> <p>I can say whether I prefer painting using a computer or using paper</p>	
--	--	--	--

Tell me 5 things!				
I know not to share my personal information online.	Name a trusted adult in school who could help you if you were worried about something you saw online.	Show me how to type your name on a computer.	Create a picture using shapes and colour on a computer.	Show me how to add programming blocks based on your algorithm.



Year 2	Topics to be covered over the year:		
Vocabulary	<p>Computer Systems and Network: Information technology (IT), computer, barcode, scanner/scan.</p> <p>Creating Media: device, camera, photograph, capture, image, digital, landscape, portrait, framing, subject, compose, light sources, flash, focus, background, editing, filter, format, framing, lighting.</p> <p>Programming: sequence, command, program, run, start, outcome, predict, blocks, design, actions, sprite, project, modify, change, algorithm, build, match, compare, debug, features, evaluate, decomposition, code.</p>		
Online Safety	Computer Systems and Network: Information Technology Around Us	Creating Media: Digital Photography	Programming: Programming Quizzes
<p>I know I must not share my personal information with anyone online (full name, date of birth, school, home address, password).</p> <p>I know I must never send photographs.</p> <p>I know what to do if a 'pop-ups' appears on my screen (stop-close-tell).</p> <p>I know to never talk to strangers online.</p>	<p>I can identify examples of computers</p> <p>I can describe some uses of computers</p> <p>I can identify that a computer is a part of IT</p> <p>I can identify examples of IT</p> <p>I can sort school IT by what it's used for</p> <p>I can identify that some IT can be used in more than one way</p> <p>I can find examples of information technology</p>	<p>I can recognise what devices can be used to take photographs</p> <p>I can talk about how to take a photograph</p> <p>I can explain what I did to capture a digital photo</p> <p>I can explain the process of taking a good photograph</p> <p>I can take photos in both landscape and portrait format</p> <p>I can explain why a photo looks better in portrait or landscape format</p>	<p>I can identify the start of a sequence</p> <p>I can identify that a program needs to be started</p> <p>I can show how to run my program</p> <p>I can predict the outcome of a sequence of commands</p> <p>I can match two sequences with the same outcome</p> <p>I can change the outcome of a sequence of commands</p> <p>I can work out the actions of a sprite in an algorithm</p>

<p>I can name several people I can trust to help me inside and outside of school.</p>	<p>I can sort IT by where it is found</p> <p>I can talk about uses of information technology</p> <p>I can recognise common types of technology</p> <p>I can demonstrate how IT devices work together</p> <p>I can say why we use IT</p> <p>I can list different uses of information technology</p> <p>I can talk about different rules for using IT</p> <p>I can say how rules can help keep me safe</p> <p>I can identify the choices that I make when using IT</p> <p>I can use IT for different types of activities</p> <p>I can explain the need to use IT in different ways</p>	<p>I can identify what is wrong with a photograph</p> <p>I can discuss how to take a good photograph</p> <p>I can improve a photograph by retaking it</p> <p>I can explore the effect that light has on a photo</p> <p>I can experiment with different light sources</p> <p>I can explain why a picture may be unclear</p> <p>I can recognise that images can be changed</p> <p>I can use a tool to achieve a desired effect</p> <p>I can explain my choices</p> <p>I can apply a range of photography skills to capture a photo</p>	<p>I can decide which blocks to use to meet the design</p> <p>I can build the sequences of blocks I need</p> <p>I can choose backgrounds for the design</p> <p>I can choose characters for the design</p> <p>I can create a program based on the new design</p> <p>I can choose the images for my own design</p> <p>I can create an algorithm</p> <p>I can build sequences of blocks to match my design</p> <p>I can compare my project to my design</p> <p>I can improve my project by adding features</p> <p>I can debug my program</p>
---	--	--	---

		<p>I can recognise which photos have been changed</p> <p>I can identify which photos are real and which have been changed</p>	
--	--	---	--

Tell me 5 things you know!

Tell me three rules for staying safe online.	Name three people you could trust to help you if you were worried about something online.	Name some common IT devices we use everyday.	Tell me how to take a good photograph.	Show me how you would debug this program.
--	---	--	--	---