## Computing: Foundation Stage

## Early Learning Goals

There is no l	longer an Earl	v Learning (	Goal for Co	mputing/Technology

	nger an Early Learning Goal for Computing/Technology			
Ide	ntifying Types of Technology	Using Technology	Using Technology Safely	
FS1	To recognise technology. To use technological toys in my role play.	To program a beebot to move forwards and backwards. To use an i-Pad to take a photograph. To use a CD player to play music.	To understand how to stay safe online through stories.	
Autumn Term	All About Me Name and recognise some technology that is used at school and at home such as computer, iPad, mobile phone. Continuous Provision Use technology appropriately through role play. Engage in role play with technological toys such as laptops, phones, washing machines, microwaves.			
Spring Term	Continuous Provision Use technology appropriately through role play. Engage in role play with technological toys.	Superheroes Make a Beebot move backwards and forwards. Begin to make a Beebot turn. Begin to make a Beebot move from one place to another.	People who Help Us: E-safety Listen to stories about staying safe online. Understand that it is important to stay safe online and begin to know some ways to stay safe online. If I am upset or worried about something then I can speak to an adult about something I have seen online.	
Summer Term	Continuous Provision Use technology appropriately through role play. Engage in role play with technological toys.	Food Around the World Start and stop music on a CD player Make music louder and quieter. Minibeasts: Use an iPad to take a photograph.		

## Computing: Foundation Stage

## Early Learning Goals

There is no longer an Early Learning Goal for Computing/Technology

Identifying Types of Technology		Using Technology	Using Technology Safely	
F52	Identify different types of technology.	<ul> <li>To use technology for a purpose.</li> <li>To use a mouse to click and drag.</li> </ul>	To begin to develop an awareness of how to use technology safely.	
Autumn	Talk about and name the different technologies used at school, e.g. computer, smartboard, visualiser, ipad, beebots	<ul> <li>Introduce clicking and dragging to improve mouse control.</li> <li>Computer programs to support other areas of Learning, especially Literacy and Maths.</li> </ul>		
Spring	Talk about and name the different technologies used at home, e.g. computer, tablet, mobile phone, television	<ul> <li>Program Beebots to move forwards, backwards, turn and cancel program.</li> <li>Use ipads to take photos.</li> <li>My Modelling Toolkit - road safety</li> </ul>		
Summer	Talk about and name the different technologies used in the community, e.g. atm, cash registers in shops, etc	Use computer painting program to draw sea creatures.	<ul> <li>Listen to the Tim and Tess e-safety stories.</li> <li>Talk about how to keep safe online</li> </ul>	

	Computing: Key Stage 1						
	Algorithms	Create Programs	Reasoning	Using Technology	Use of IT beyond School	Safe Use	
Year 1	Pupils should be taught to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	Pupils should be taught to create and debug simple programs	Pupils should be taught to use logical reasoning to predict the behaviour of simple programs	Pupils should be taught to use technology purposefully to create, organise, store, manipulate and retrieve digital	Pupils should be taught to recognise common uses of information technology beyond school	Pupils should be taught to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	
Autumn Term	Write short algorithms and programs and predicting program outcomes  Tell the giant how to move.  Washing clothes instructions.			Using a computer to create and format text, before comparing to writing non-digitally  Developing mouse skills  Using a keyboard.  Developing keyboard skills  Lists.  Capital letters and full stops.  Enter key. Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally. How can we paint using a computer?  Using shape and line  Making careful choices. Introduce a range of shape tools  Select paint tools, colours, brush sizes and brush tools  Stickman pictures.	Recognising uses of technology in school  Technology around us  Using technology	Using a computer responsibly  Use computers safely within the school setting.  Why do we have rules in school? How do they help us?  Apply understanding to rules needed for using computer technology safely.	

	Writing short algorithms	Designing and	Using a computer to	
	and programs for floor	programming the	create and format text,	
		movement of a	•	
	robots and predicting		before comparing to	
	outcomes	character on screen	writing non-digitally	
	Introduction to floor	Espresso Coding	<ul> <li>Adding and removing</li> </ul>	
	robots (beebots)	Lessons	text. Use the	
	<ul> <li>Directions. Think</li> </ul>		backspace key to	
	about the language		remove text	
	used to give		<ul> <li>Exploring the toolbar.</li> </ul>	
	directions. Give and		Use the Caps Lock key	
E	follow instructions		to add capital letters.	
<u> </u>	<ul> <li>Forwards and</li> </ul>		Explore buttons	
<u>_</u>	backwards.		available on the	
_	Programme to move		toolbar	
වි	forwards and		<ul> <li>Making changes to</li> </ul>	
_ <b>:</b> =	backwards.		text. Use the mouse	
Spring Term	<ul> <li>Four directions. Use</li> </ul>		cursor to select text.	
S	left and right		Explore different	
	commands, forwards		fonts	
	and backwards.		<ul> <li>Explaining choices.</li> </ul>	
	<ul> <li>Getting there. Decide</li> </ul>		Begin to use 'undo' to	
	what their program		remove changes.	
	will do.		Justify use of tools	
	Routes, Plan routes		when changing text	
	before starting to		<ul> <li>Pencil or keyboard?</li> </ul>	
	write programs.		Make comparisons	
	Beebots to landmarks		<ul> <li>Type list of landmarks.</li> </ul>	
	beebere re ranamarne		<ul> <li>Create Postcards</li> </ul>	
			Choosing appropriate tools	
			in a program to create art,	
_			and making comparisons	
Term			with working non-digitally	
<u> </u>				
<b> -</b>				
			arms.	
<u>0</u>			Using a computer to	
Summer			create and format text,	
E			before comparing to	
70			writing non-digitally	
0,			<ul> <li>Type instructions for</li> </ul>	
			washing socks/how to	
			cross a river	

Computing: Key Stage 1							
	Algorithms	Create Programs	Reasoning	Using Technology	Use of IT beyond School	Safe Use	
Year 2	Pupils should be taught to understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions	Pupils should be taught to create and debug simple programs	Pupils should be taught to use logical reasoning to predict the behaviour of simple programs	Pupils should be taught to use technology purposefully to create, organise, store, manipulate and retrieve digital	Pupils should be taught to recognise common uses of information technology beyond school	Pupils should be taught to use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	
Autumn Term		Creating and debugging programs  Follow and give instructions.  Same instructions but different order. How does the order affect outcomes?  Design, create and test mats and routes.  Design an algorithm to move robot around mat.  Break down a larger programming task, fix errors and understand this process as 'debugging'.	Using logical reasoning to make predictions  • Follow a program step by step and identify what the outcome will be  • Which Beebot journey will take the longest? Make reasoned decisions rather than guesses	Using a computer to create and format text, before comparing to writing non-digitally  Type a simple sentence with punctuation.  Create fact files - save file, retrieve file, insert picture, use return key, edit text.	Identifying IT and how its responsible use improves our world in school and beyond it. Understand that technologies can be used to communicate in a variety of ways. What is IT? IT in school IT in the world The benefits of IT Using IT in different ways		

Spring Term	Designing algorithms and programs that use events to trigger sequences of code.  Espresso Coding Lessons  Using the keyboard.  Red Riding Hood  Snow White Up in the Air Shark Attack			Using IT safely List different uses of IT and talk about the different rules that might be associated with using them. Say how rules can help keep them safe when using IT E-safety Tim and Tess the Internet Game - NSPCC. Being kind online. Know where to go for help to stay safe - Twinkl safety pack.
Summer Term			Pictograms  Counting and comparing. Understand the importance of organising data effectively.  Enter the data manually and digitally  Make a pictogram on a computer  What is an attribute? Group objects by attribute.  Comparing people. Organise people using attributes to create a pictogram.  Presenting information. Learn that there are other ways to present data	Consider whether it's always OK to share data and when it is not OK. Give examples of why information should not be shared. How to report concerns.