St Anne's C of E Primary School Curriculum Plan

 Subject: Computing
 Year: 1
 Term: Autumn

 Image: Subject: Computing
 Image: Subject: Subject:

Vocabulary	Knowledge	Understanding	Skills	
	Children will know (that)	Children will understand (that)	Children will be able to	
Technology – Something that is	Computing systems	Computing systems	Effective use of tools	
made by people to help us. It does not have to be electronic or digital.	technology can help us in our everyday life.	what a computer is and how its constituent parts function together as a whole.	switch a computer / laptop on and off correctly.	
Device – a piece of mechanical or	what is and what is not technology		click and drag to move objects on a	
electronic piece of equipment made or used for specific purpose.	within a familiar environment (home/school).	how technology helps us in everyday life.	screen with purpose.	
		, ,	write their name using the	
Computer – A device for working with information. This can be	the main features of a computer / laptop.	what each feature of a computer/laptop does.	keyboard.	
letters, words, numbers or images.			leave spaces between words using	
	There are rules that we all need to	that although mice look different on	a keyboard.	
Mouse – A hand held device	follow when we are using	a laptop and desktop, they perform		
separate to the computer with 2 buttons on. It controls the cursor	technology and that these keep us safe.	the same task.	delete something they have typed using the keyboard.	
on the screen.		the keyboard is used to write on a	- /	
		computer.	save their work to a file and re	
Trackpad – A flat pad on laptops			open it.	
that you slide your finger over to		that the save icon will save their		
move a cursor.		work so they can see it again next		
		time they use the laptop /		
Keyboard – A series of buttons or		computer.		
keys with letters and symbols on.				

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Screen – The surface (usually flat) on which the image appears on an electronic display.	that the save icon is the same on many programs	
Double-click – To select a function or item on a computer screen by pressing one of the mouse buttons twice quickly		
Typing – the process of using a keyboard to write words, letters or numbers on a screen.		
Trusted adult – an adult that you have a good relationship with an who can help keep you safe, help you and protect you.		

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 Subject: Computing
 Year: 1
 Term: Spring

 Init: Creating Media - Digital Painting
 Image: Spring

Vocabulary	Knowledge	Understanding	Skills
	Children will know (that)	Children will understand (that)	Children will be able to
Paint program – A program on a computer that allows you to draw or select shapes of different colours and sizes to create a picture.	Creating media computers can be used to make art.	Design and development — activities involved in planning, creating and evaluating computing artefacts.	Creating Media select and create a range of media using text and images.
Tool – A specific icon in a program that allows you to perform a specific task.	the names of some of the tools that can be used to make art on a computer.	what each free hand tool can do. that free tools can be adjusted to	make marks and draw on a screen. select and use an appropriate colour when drawing on a screen.
Paintbrush – A computer drawing tool.	their work can be saved, opened and worked upon again. different effects can be	suit need. when it is appropriate to use each tool.	Effective use of tools select and use an appropriate thickness of paintbrush when
Fill – When a shape on screen is filled in with a specific colour.	incorporated into a picture created on a computer.	Differences when painting using a computer and painting using	drawing on a screen. select and use the shape tool
Undo – Take away or delete your last action.	key features of a picture created on a computer and pictures that are not.	brushes.	effectively when drawing on a screen.
Free hand tools – Tools that are controlled with the mouse or touch pad. This allows free lines and			fill a shape drawn with an appropriate colour.
shapes to be drawn as if you were			use the undo button to correct a mistake.

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drawing with a pen, pencil or paint brush. Shape tools – A tool that allows you to draw set shapes accurately. The size of these can be changed. Line tool- A tool that allows you to draw a straight line of any length or thickness.	to save, file and open work to continue working on one piece. explore technology through trial and error, discussing, learning and demonstrating as they tinker.
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Subject: Computing		Year: 1		Term: Summer
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Vocabulary	Knowledge	Understanding	Skills	
	Children will know (that)	Children will understand (that)	Children will be able to	
Pattern – a regular or logical form, order, or arrangement of parts.	Programming	Programming	Programming	
Algorithm –a sequence of instructions or a set of rules to get	an algorithm is a set of instructions with an intended outcome	that an algorithm needs to be clear and precise or the outcome will not be what is intended.	write an algorithm, test it and then debug if the outcome is wrong.	
something done. Debug – Debugging is the process	to solve a problem, breaking it down and applying logic will help.	they need to test a solution and that if it goes wrong they can adapt	use logical reasoning to solve a problem.	
of finding and fixing errors in an algorithm	repetition is the recurrence of actions or events and can be used	and try and fix it.	to spot, within an algorithm, where and when repetition can be used	
Logical reasoning –helps us explain why something happens.	in an algorithm. a set of instructions is an algorithm and they know that changing the	using repetition can save time, simplify an algorithm and help to avoid mistakes.	to create an algorithm for a person to follow.	
Repetition – the recurrence of actions or events.	order of these instructions can change what happens.	the order of a set of instructions is important if they want something specific to happen.	to explore technology through trial and error, discussing, learning and demonstrating as they tinker.	
Decomposition - the process of breaking down a task into smaller, more-manageable parts.	each button on the bee-bot control panel does. (forward, backwards, turn left, turn right, go, clear, pause)	that tinkering with new technology is a good way of discovering what is possible and how something works.	to look at a problem, discuss possible solutions and test them by programming the Bee-Bots using the control buttons.	

Tinkering – Learning and making sense of something by using, playing and experimenting with it.	some technology can be programmed to complete a task/act in a certain way/create a specific output	that the Bee-Bot will only do what they program it to do	Persevere when they encounter bugs and work through how to fix them.
 Programming – the process of writing computer programs Collaborating - work with others on an activity or project 	they can clear a program and start again. if the bee-bot does not do what they wanted it to do, the algorithm will need debugging.	that the Bee-Bot will follow the sequence of buttons pressed in order and that if something goes wrong, it is because the algorithm is wrong.	