Great Wheinethan Core Primary Schoo	Great Whelnetham C of E Primary School EYFS Skills and Knowledge Progression Subject area: Computing
Computing in Early Years	Children require access to a range of technologies, both digital and non-digital in their early lives. Exploring with different technologies through play provides opportunities to develop skills that children will go on to develop in
	their lifetimes. Investigations, scientific inquiry and exploration are essential components of learning about and with technology both digitally and in the natural world. Through technology children have additional opportunities to learn across all areas in both formal and informal ways. Technologies should be seen as tools to learn both from and with, in order to integrate technology effectively within early years practice.
3 to 4 years	 Explore how things work Know how to operate simple equipment, e.g. turns on a CD player, uses a remote control, can navigate touch-capable technology with support. Shows an interest in technological toys with knobs or pulleys, real objects such as cameras and touch screen devices such as mobile phones and tablets.
Reception	Knows that information can be retrieved form digital devices and the internet.
Reception	 Completes a simple program on electronic devices Uses ICT hardware to interact with age appropriate computer software
	 Can create content such as a video recording, stories, and/or draw a picture on screen Develops digital literacy skills by being able to access, understand and interact with a range of technologies
	Can use the internet with adult supervision to find and retrieve information of interest to them

or F Primary School	Great Whelnetham C of E Primary School Skills and Knowledge Progression Subject area: Computing			
Skills and Knowledge ComputerScience	Y1I can explain that an	Y2 & Y3I can explain an algorithm is a set of	Y4I can turn a real-life situation to	Y5/6I can turn a complex
	 algorithm is a set of instructions. (1.4, 1.5) I know that an algorithm written for a computer is called a program. (1.4, 1.7) I can work out what is wrong when the steps are out of order in instructions. (1.4, 1.5) I can say that if something does not work how it should it is because my code is incorrect. (1.7) I can try and fix my code if it isn't working properly. (1.7) I can make good guesses of what is going to happen in a program. For example, where the turtle might go. 	 instructions to complete a task. (2.1) I know I need to carefully plan my algorithm so it will work when I make it into code. (2.1) I can design a simple program using 2Code that achieves a purpose. (2.1) I can find and correct some errors in my program. (2.1) I can say what will happen in a program. (2.1) I can spot something in a program that has an action or effect (does something) (2.1) I can make a real-life situation into an algorithm for a program. (3.1) I can design an algorithm carefully, thinking about what I want it to do and how I can turn it into code. (3.1) I can experiment with timers in my programs. (3.1) 	 solve into an algorithm, using a design that shows how I can accomplish this in code. (4.1, 4.5) I can use repetition in my code. For example, using a loop that continues until a condition is met such as the correct answer being entered. (4.1) I can use timers within my program designs more accurately to create repetition effects. For example, I can create a counting machine. (4.1) I can use selection (decision) in my programming. For example, using an 'if statement' for a question being asked and the program takes one of two paths. (4.1) I can use the user inputs and output features within my program, such as 'Print to screen'. (4.1) I can identify errors in my code by 	 programming task into an algorithm. (6.1) I can identify the important aspects of a programming task (abstraction). (6.1) I can decompose important aspects of a programming task in a logical way, identifying appropriate coding structures that would work. (6.1) I can test and debug my program as I work on it and use logical methods to identify a cause of a bug. (6.1) I can identify a specific line of code that is causing a problem in my program and attempt

I can identify the difference in	using different methods, such as	a fix. (6.1)
using between the effect of a timer	steeping through lines of code and	I can translate
or repeat command in my code.	fixing them. (4.1)	algorithms that include
(3.1)	 I can read programs that contain 	sequence, selection and
 I know that a variable stores 	several steps and predict the	repetition into code and
information while a program is	outcomes with increasing accuracy.	nest these structures
running (executing). (3.1)	(4.1, 4.5)	within eachother. (6.1)
 I can identify 'If' statements, 	 I recognise the main component 	• I can use inputs and
repetition and variables. (3.1)	parts of hardware which allow	outputs within my coded
 I can read programs with several 	computers to join and form a	programs suchas sound,
steps and predict what it will do.	network. (4.8)	movement and buttons
(3.1)	 I understand that network and 	and represent the state
• I can identify different ways that	communication components can be	ofan object (6.1, 6.7)
the internet can be used for	found in many different devices	I can interpret
communication. (3.5)	which allow them to join the	(understand) a
• I can use email such as 2Email to	internet. (4.2, 4.7, 4.8)	program in parts and
respond to others appropriately and	• I can test and debug my programs	can make logical
attach files. (3.5)	as I work. (5.1, 5.5)	attempts to put the
	• I can convert (translate) algorithms	separate parts together
	that contain sequence, selection and	in an algorithm to
	repetition into code that works. (5.1)	explain the program as
	• I can use sequence, selection,	a whole. (6.1)
	repetition, and some other coding	• I can explain the
	structures in my code. (5.1)	difference betweenthe
	• I can organise my code carefully	internet and theWorld
	for example, naming variables and	Wide Web. (6.2,
	using tabs. I know this will help me	6.4,6.6)
	debug more efficiently. (5.1)	• I can explain what a
	I can use logical methods to	WAN and LAN is and
	identify the cause of any bug with	describe the process of
	support to identify the specific line	how access to the
	of code. (5.1)	
	• I know the importance of computer	
	networks and how they help solve	

			 problems and enhancecommunication. (5.2) I recognise the main dangers that can be perpetuated via computer networks. (5.2) I can explain what personal information is and know strategies for keeping this safe. (5.2) I can use the most appropriate form of online communication according to the digital content. For example, use 2Email, 2Blog andDisplay Boards. (5.2 & others) 	internet in school is possible. (6.2,6.6)
Information Technology	 Year. 1 I can sort sound, pictures and text. (1.2) I can add sound, pictures and text to a program such as 2Create a Story. (1.6) I can change content on a file such as text, sound and images. (1.3, 1.6, 1.7, 1.8) I can name my work. (1.2, 1.3, 1.6, 1.7, 1.8) I can save my work. (1.2, 1.3, 1.6, 1.7, 1.8) I can find my work. 	 Year. 2/3 I can organise data – for example, using a database such as 2Investigate. (2.3, 2.4) I can find data using specific searches – for example, using 2Investigate. (2.4, 2.5) I can use several programs to organise information – for example, using binary trees such as 2Question or spreadsheets such as 2Calculate. (2.4, 2.8) I can edit digital data such as data in music composition software like 2Sequence. (2.7 and most units) I can name, save and find my work. (2.3, 2.4, 2.6, 2.7, 2.8 & most units) I can include photos, text and sound in my creations. (2.8, 2.6) I can carry out searches to find digital content on a range of online systems, such as within Purple 	 Year. 4 I understand the purpose of a search engine and the main features within it. (4.7) I can look at information on a webpage and make predictions about the accuracy of information contained within it. (4.7) I can create and improve my solutions to a problem based on feedback. For example, create a program using 2Code. (4.1, 4.2) I can review solutions that others have created, using a checklist of criteria. (4.1, 4.2) I can work collaboratively to create content and solutions. (4.1,4.3, 4.4,4.8) I can share digital content using a variety of applications such as: 2Blog, 2Email and Display Boards. (Across units) 	 Year 5/6 I can use filters when searching for digital content. (6.2,6.9) I can explain in detail how accurate and reliable a webpage and its content is. (6.2) I can compare a range of digital content sources and rate them in terms of content quality and accuracy. (6.1, 6.3, 6.4, 6.5, 6.7,6.9) I can consider the intended audience carefully when I design and

		 Mash or on an internet search engine. (Across units) I can collect data and input it into software. (3.3, 3.6, 3.8) I can analyse data using features within software to help such as, formula in 2Calculate (spreadsheets). (3.3, 3.6, 3.8) I can present data and information using different software such as 2Question (branching database) or 2Graph (graphing tool). (3.3, 3.6, 3.8, 3.9) I can consider what the most appropriate software to use when given a task by my teacher. (Across units) I can create purposeful (appropriate) content and attach this to emails. (3.3, 3.5, 3.6, 3.7, 3.8, 3.9) 	 I can search precisely when usinga search engine. For example, I know I can add additional words or removes words to help find better results. (5.2) I can explain in detail how accurate, safe and reliable the content is on a webpage. (5.2) I can make appropriate improvements to digital work I have created. (Across units) I can comment on how successful a digital solution is thatI have created. For example, a program built in 2Code that sorts decimals numbers. (Across units) I can work collaboratively with others creating solutions to problems using appropriate software such as 2Code. (Across units) I can use collaborative modes such as within 2Connect to workwith others and share it. (5.7) 	make digital content. (6.1, 6.3, 6.4, 6.5, 6.7,6.9) I can design and create my own online blogs. (6.4) I can use criteria to evaluate the quality of my own and others digital solutions, suggesting refinements. (6.1, 6.3, 6.4, 6.5, 6.7,6.9)
	Year. 1	Year.2/3	Year. 4	Year 5/6
Digital Literacy	 I can say what technology is. (1.9) I can say what examples of technologyare in school. (1.9) I can say what examples of technology are at home. (1.9) I know that a chair uses old technology and a 	 I can find information I need using a search engine. (2.5) I know the consequences of not searching online safely. (2.2, 2.5) I can share work and communicate electronically – for example using 2Email or the display boards. (2.2 and others) 	 I have a good understanding of the online safety rules we learn at school. (4.2 & across curriculum) I can demonstrate how to use different online technologies safely. (4.2 & across curriculum) I can demonstrate how to use a few different online services safely.(4.2 & across curriculum) I know I have a right to privacy 	 I can demonstrate safe and respectful use of a range of different technologies and online services. (6.2, 6.4) I can identify more discrete inappropriate

smart phone uses new technology. (1.9) I can keep my login information safe. (1.1 and most units) I can save my work in a safe place such as 'My Work' folder.	 I can report unkind behaviour and things that upset me online, to a trusted adult. (2.2) I can see where technology is used at school such as in the office or canteen. (2.2) I understand that my creations such as programs in 2Code, need similar skills to the adult world. e.g. The program used for collecting money for school trips I can explain the importance of having a secure password and not sharing it with others. (3.2, 3.5) I can explain the negative consequences of not keeping passwords safe and secure. (3.2, 3.5) I understand the importance of keeping safe online and behaving respectfully. (3.2) I can use communication tools such as 2Email respectfully and use good etiquette. (3.2, 3.5) I can report unacceptable content and contact online in more than one way to a trusted adult. (3.2) 	 both on and offline. (4.2 & across curriculum) I recognise that my wellbeing can be affected by how I use technology. (4.2 & across curriculum) I can report with ease any concerns with content and contactonline and know immediate strategies to keep safe. (4.2 & across curriculum) I have a secure knowledge of online safety rules taught at school.(5.2 & across units) I can demonstrate the safe and respectful use of different online technologies and online services. (5.2 & across units) I always relate appropriate online behaviour to my right to have personal privacy. (5.2 & across units) I know how to not let my mental wellbeing or others be affected by use of online technologies and services. (5.2 & across units) 	 behaviours online. For example, someone who may be trying to groom me or someone else. (6.2) I can use critical thinking to help me stay safe online. (6.2) I know the value of protecting my privacy and others online. (6.2, 6.4)
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