Spring 1 Computing Expectations Year 2						
Information Technology/Digital Literacy (needs to be constantly "dripped" into the curriculum, initially taught in A1) • use technology purposefully to create, organise, store, manipulate and retrieve digital content • 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 Information technology/Digital Literacy		•	Computer Science understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions create and debug simple programs use logical reasoning to predict the behaviour of simple programs Computer Science			
Intont	Implementation	-	Intent	Implementation		
IntentImplementationTo consolidate and application of objectives already introduced in A1 and re-teach skills in cross curricular and purposeful ways.Ensure Purple Mash "2dos" are established to support other areas of the curriculum in purposeful waysEnsure that QR codes are readily available linked to Foundation subjects being taught this term, as well as making sure QR codes are available to consolidate prior learning.Ensure that any objectives identified in A2 planning and assessment Staff meeting that were not covered are addressed this half term	• • • •	use and understand the term "algorithm" create simple programs and find the "bugs" in them predict the outcomes of their algorithms and programs to give commands that include directional and positional language (distance and turn) program, execute and debug a device create a set of instructions to complete a simple task (e.g drawing a triangle) discuss and improve their commands to begin to answer "what if?" questions (e.g. what if I change the distance to?) predict and test their idea compare similarities between on screen and floor devices	 iPads to create an algorithm – use the camera function and 10 lego bricks activity – see "Barefoot Computing" for more ideas Small world stop motion – using iPads and <u>https://www.youtube.com/watch?v=M53QPyVyRTg</u> (teacher support only video) Use bee bots to create simple algorithms and then debug any problems – encourage children to give a set of instructions to a friend to "debug" Use pre made directional cards – can the chidren predict "where" bee bot will end up Using pre made bee bot mats to encourage programming and predictive language 2code – Use the "Chimp" resources (covers programming and 			

E-Safety							
Additional Support Purple Mash Knowledge Organisers (Unit 1.4, 1.5, & 1.7) "PM - Teacher – Computing Scheme of Work – Year 1 – Unit number – Knowledge Organiser. (although aimed at Year 1, there are helpful ideas that can be extended and adapted) CEOP /Think U Know websites							
touch screen, mouse/mouse pad, machine, ag		Terminology to be used: television, machine, app/program names technology, computer, iPad, photod		Terminology to be	e used: algorithm,	sequence, input, outp	ut
					explorer/coding https://www.bb BBC Bitesize –Ex algorithm? 2.1 2 code Barefoot Compu	oc.co.uk/bitesize/subjec xplaining Computer Scie	ets/zyhbwmn ence - What is an
						Coding Knowledge Introduced	

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IMPLEMENTATION

Recognise that there may be people online that may make us feel sad, embarrassed or upset	Link to PSHE curriculum, when discussing dreams and passions etc, make reference to how these feelings might appear when using iPads/laptops etc
Give examples of when and how to speak to an adult if they feel unsafe	PSHE focus – "The internet in everyday life" - Revisit and reafirm e-safety rules together as a class in the same way class rules are established, ensuring children ask for permissions before using equipment, taking photographs of friends (CONSENT) etc
Explain why it is important to be nice online	
Ask an adult for permission before uploading online	Ownership of work online – continue to save and retrieve by naming – be more specific in titles of pieces
Identify rules that keep us safe when online	SWIGGLE – age appropriate website to be used for research online by children
Begin to understand "ownership" and some personal data online	Re read the story of "Smartie the Penguin" to re focus the children – Year 2 focus story – use a safe search engine, private and shared information
Explain what a password is and why it keeps us safe	
Say why something online belongs to them (eg it is my idea, my picture)	Think u know – home learning packs – games and ideas to support "e-safety" teaching and learning https://www.thinkuknow.co.uk/parents/home-activity-worksheets/5-7s/
Save their work so others know it belongs to them	https://www.thinkuknow.co.uk/parents/jessie-and-friends/
Introduce the idea of consent when taking photographs of our friends	
Use age appropriate websites	
Agree and follow e-safety rules together	