

**Y1 Computing Curriculum**  
**Medium Term Plan**

Year 1 Autumn				
Topic	Lesson	Lesson Focus	Key Knowledge	Vocabulary
<b>ESafety</b>	1	Self image and identity	To know that there are people online who can make someone feel sad, embarrassed or upset. To know that if something makes us feel sad or worried, we can talk to a trusted adult.	
	2	Online reputation	To know that information can stay online and can be copied. To know what information should not be put online without speaking to a trusted adult first.	
<b>Unplugged Programming Activities</b>	1	Using programmable toys	Introduce concept and programmable toys such as Bee Bots.	Programmable toy
	2	Writing and understanding algorithms	Know that algorithms are the instructions we write for a computer to follow	Algorithms
	3	Using algorithms on a programmable toy	Know that algorithms are the instructions we write for a computer to follow	sequence, repeat, input, output
	4	Debugging a programmable toy	Know that if you make a mistake, it can be checked and fixed, this is called debugging.	debugging,
<b>Introduction to programming</b>	1	Understand sequence and algorithm	To know that an algorithm is a set of instructions designed to perform a specific task. To know that computers require algorithms to work.	algorithm, instruction, task, app computer, algorithm debugging
	2	Understand and explore algorithms in real life	To know that in computing, putting things in the correct order is vital to something working successfully (robots, traffic lights etc). To know that computers follow instructions to meet an objective.	
	3	Using algorithms on an app	To know that we can write simple algorithms but the instructions need to be unambiguous.	
	4	Debugging an algorithm on an app	To know that something in the code goes wrong, it can be fixed and this is called debugging.	

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<b>Spring</b>				
<b>ESafety</b>	1	Online relationships	To know that permission must be given by a trusted adult before going online. To know that the internet can be used to communicate with people we know. To know that we must be kind and considerate whilst online and to respect others.	
	2	Online bullying	To know ways to behave online that don't upset other people.	
<b>Design</b>	1	Explore designs	Designs of everyday objects and buildings, bridges etc can be designed on computers. Blueprints are a design plan which need to be followed when building whatever it is the blueprints are for.	Design, blueprints, objects, mouse, click, drag and drop, reshape, resize, rotate, position, reposition, pattern, elements
	2	Reshape and resize objects	To know that we can use a mouse or our fingers on a touchscreen I-Pad to reshape and resize objects.	
	3	Change positions of shapes	To know that we can use a mouse or our fingers to move an object's position or rotate it. To know that we can position objects in relation to each other.	
<b>Summer</b>				
<b>ESafety</b>	1	Health, Well-being and lifestyle	To know how to keep safe when using technology both in and beyond the home	
	2	Privacy and security	To know how passwords are used to protect information, accounts and devices. To know examples of information that is personal to someone. To know that it is always important to ask a trusted adult before sharing any personal information online belonging to myself or others.	
<b>Music Creator</b>	1	Explore instruments on an app	To know that Instruments make all sorts of sounds and they can also be divided into groups. To know that we can make music using different software on computers and I-Pads.	Instruments, Scales, chords, appregios, rhythm, tempo, mixing, code, multi-tracking, variables, loops, program, output, composition, pitch, melody, scale, percussion, wind, string, chord
	2	Create music with a rhythm	A rhythm is a regular, repeated pattern of sound.	
	3	Change chords and tempo	A chord is the layering of several tones played simultaneously. A melody is the main tune in a piece of music. Tempo is the speed of the music.	
	4	Explore pitch	Pitch refers to how high or low the music is.	
	5	Create a composition	Composition is the creation of an original piece of music. To know that we can create sampled music using code blocks, in particular, variables to change the shape of the sound and create loops. To know that we can layer sounds to create a composition.	

\*ongoing skill throughout year

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