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	Subject: Computing	Vocabulary	•	
		Micro: bit,	CSS Dlug in	
	Year group: 6	Input, Process	Plug in Songing	
		Output	Sensing Accelerometer	
	Term: Summer Term	USB	HTML	
	Unit names - Dragramming, Cancing using Microhite	Emulator	Random	
	Unit name: Programming: Sensing using Microbits	Selection	Selection Condition	
		Condition,	Variable	
		- if then else Variable	MakeCode	
Big idea	: To apply knowledge of the programming constructs and use their design to create		Makecode	
-	vn BBC Micro:bit based step counter.			
Progress	sion of skills:		•	
Understands the difference between, and appropriately uses if and if, then and else statements.			ro:bit	
Designs, writes and debugs modular programs using procedures.		mic	0.01	
Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.		National Curriculum	links :	
Prior learning:		Design, write and debug programs that		
Sequence from Year 3 : Sequencing in Music Children were introduced to a selection of motion, sound, and event blocks which they will use to create their own programs, featuring sequences.			•••••	
-	arning: e from Year 3 : Sequencing in Music Children were introduced to a selection of motion, sound,	accomplish speci controlling or sin	l debug programs that fic goals, including nulating physical systems; y decomposing them into	
and even Repetitio	arning: e from Year 3 : Sequencing in Music Children were introduced to a selection of motion, sound,	accomplish speci controlling or sin solve problems b smaller parts	fic goals, including nulating physical systems;	
and even Repetitio and patte Selection use of If.	arning: e from Year 3 : Sequencing in Music Children were introduced to a selection of motion, sound, nt blocks which they will use to create their own programs, featuring sequences. on from Year 4 : Repetition in Shapes Children plan, modify, test commands to create shapes	 accomplish speci controlling or sin solve problems b smaller parts Use sequence, se programs; work forms of input ar 	fic goals, including nulating physical systems; y decomposing them into election, and repetition in with variables and various	





Key learning assessment statement -What will the children know by the end of the unit?

To explore Microbits programming environment by building and testing a program using if...then...else statements which features selection

influenced by a random number (build a fortune teller project)

To use conditions to change the value of a variable using selection.

To develop their programs to update the variable to sense motion and respond to an input.

To use conditional statements to modify programs so that the Microbit becomes a navigational device.

To design and program a step counter by deciding on variables, designing the algorithm, testing and modifying their program.

To fix bugs as they program and work collaboratively to evaluate as they work.

Spiritual Development

Computing allows children to reflect on the awe and wonder of the achievements and possibilities of ICT in a modern world. They think about the limitless opportunities that could be achieved thus promoting their sense of self and motivation. **Exodus 15:11:** And amazement seized them all, and they glorified God and were filled with awe, saying, "We have seen extraordinary things today."

