Autumn 1		Lostwithiel P	rimary School	ary School Year 5/6	
Computer Science - Coding		Computing Knowledge Organiser		Conkers Class	
Prior Learning: Program	ning and Coding will have	been taught throughout the scho	ol Y1 - Y5. Children will have a goo	od understanding of the key principles and wil	
ave used programmabl	e robots, Bee Bot App, [Daisy the Dinosaur App, Hopscotcl	h and Scratch.	5 / 1	
 Key Computing Learning: Use external triggers and infinite loops to control sprites. Create and edit variables Use conditional statements. Pupils should know that: * algorithms can be split (decomposed) into parts (called proced * algorithms can include selection (if) and repetition (loops) * programmes are planned * values (variables) can select which procedure is performed. Use loops and conditions to create games. Use variables to configure external outputs within scratch 		 Use conditional statements and infinite loops. Design their own game using sprites, backgrounds, scoring and/or timers The game has a clear 'win' and 'lose' end. Evaluate and debug their game as required. Know that: algorithms can be symbolic flowcharts or in a defined language algorithms are created from a plan and tested algorithms can include selection (if) and repetition(loops) good code tells computers and humans how a programme works. computers can be programmed to make 'choices' but really the programmer has created the choic. 			
Software /Hardware	external outputs	L	An Computing Vassbulary		
Resources		٢	tey comparing vocabulary		
An Hour of Code	Triggers	An action which activates part of th	ne algorithm.		
Scratch 3	Infinite Loops	A set of instructions which will end	R		
Kodu Game Lab	Sprites	A graphic that can be programmed to do things and move on screen.			
	Conditional Statements	A set of rules performed if a certain condition is met.			
	Algorithms	A sequence of instructions that solves a task or problem.			
	Procedures	Parts of an algorithm.			
	Decomposed	When an algorithm is split.			
	Configure	Arrange or order (a computer system or an element of it) so as to fit it for task.		or task. KODU	
	variable	Something that can be changed. GAME LAB			
	debug	Process of identifying and removing errors from computer hardware or software.			
Computing Outcomes		Cross Curricular Links			
reate a series of proced	ures to complete a set of	• Maths - animate shapes (identify	properties of regular polygons, angles	5)	
ctions, debug to improve	the final piece.	• English - working collaboratively,	following instruction, speaking and lis	tening – sharing ideas to animate a short story /	
Design and create own game, with a partner, with		poem			
nultiple answers / an end	total / score.	Science - animate a scene (electr	ical safety)		