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Computing			Year 5					
Algo	orithms and programming—selection	in physical computing						
Age	related computing vocabulary							
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Scenarios- foreseeable interactions of types of users and the system		Logical reasoning- explain why some- thing happens . We can use it to work out exactly what a program or computer system will do		Solution- a way in which a problem or task is solved or otherwise addressed using electronic computers				
Key Knowledge								
•	a microcontroller is a programmable device that can control outputs and respond to inputs (crumble)							
,	an algorithm is a precise set of ordered steps, which can be followed by a human or a computer in order to do a task							
•	algorithms can be presented in different ways							
•	'conditions' can be used as inputs to control the crumble							
•	Conditions are always true or false statements							
•	Actions can either stop or start when conditions are met							
,	Selection follows an 'if then' structure							
•	Selection is where tasks are controlled by devices that have been programmed to carry out actions when a condition has been met.							

Computing	arlton Assessment Grid			
Success	Pupil Reflection		Teacher Assessment	
I can experiment with variables to a computer	Before	After		
I can write a program that inclu	Before	After		
I can predict and explain why a loop can stop when a condition is met		Before	After	
I understand that a loop can be used to repeatedly check whether a condition has been met		Before	After	
I can design a physical project/algorithm that includes repetition and 2-way selection		Before	After	
I can select and use software to create a program that controls a physical computing project and debug where appropriate		Before	After	