



Computing Knowledge Organiser		
Year group: 4	Topic link: Mountains/ Rivers/ Coasts	Element of Computing: Coding (continuous loops)
Key Question: What is the function of a continuous loop?		



Key Vocabulary	
loop	a sequence of instructions that is continually repeated until a certain condition is reached.
Continuous loop	an infinite loop (or endless loop) is a sequence of instructions that, as written, will continue endlessly, unless an external intervention occurs
Coding block	Block coding turns programming into a drag-and-drop process by converting text based code into visual blocks.
Debug	identify and remove errors from (computer hardware or software)



Mediums and Resources	
Scratch – either on IPads or Laptops	
	

My outcome will be
To create my own version of the Helicopter Game using the 'forever' (continuous) loop code block using the context of mountains and rivers.

What key knowledge will I have by the end of this journey?
Confident understanding of the function of the 'forever' coding block
Solid understanding of the purpose of continuous loops
Ability to apply a continuous loop to an element of a game.

What key skills will I have by the end of this journey?
Improved ability to code by adding more coding blocks to my toolkit
Improved ability to debug my code by identifying errors in code featuring continuous loops and correcting them.

Links to previous and future learning			
In Year 3 Use inputs and sequences to make a simple game	In year 4 Use loops and sequences with repetition	In Year 5 Use procedures with conditions and conditional starts	In year 6 Develop an app/ game/ device using knowledge of coding