



Computing Knowledge Organiser		
Year group:4	Topic link:	Element of Computing: coding
Key Question: How do count controlled loops work in an app?		



Key Vocabulary	
Count controlled loop	A count-controlled loop is used when the number of iterations to occur is already known. A count-controlled loop is so called because it uses a counter to keep track of how many times the algorithm has iterated.
Algorithm	A programming algorithm is a computer procedure that is a lot like a recipe (called a procedure) and tells your computer precisely what steps to take to solve a problem or reach a goal. The ingredients are called inputs, while the results are called the outputs.

Mediums and Resources

Scratch – either on IPads or Laptops

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



My outcome will be
To code an app that includes count controlled loops

What key knowledge will I have by the end of this journey?
The function of count controlled loops and how they can be used in an application
Understand what an algorithm is and how it applies to coding an app
Know what applications are and how they are different to standard computer functions

What key skills will I have by the end of this journey?
Effectively use the coding blocks for count controlled loops
Be able to debug code to problem solve