S

Key Vocabulary

loops

		Computing Knowledge			
	Year group: 4	Topic link:	Element of Computing: loops and repeating sequences		
	Key Question: What	are loops and sequences with	repetition in coding?	Abstract PICTORIAL	
lary	uter programming, a loop is a s	equence of instruction s	Code	What key knowledge will I have by the end of this journey?	
In computer programming, a loop is a sequence of instruction s that is continually repeated until a certain condition is reached.			when b - key pressed	Confident understanding of the function of coding blocks for control, movement, pen and event	
Repetition in a program means that lines of code will be run multiple times. Iteration is a term similar to repetition. It means to continue repeating an action until you achieve the correct outcome, unless that desired outcome is not possible. Both iteration and repetition are implemented using loops.			move 50 steps turn C 120 degrees wat 1 seconds move 50 steps turn C 120 degrees turn C 120 degrees		t
			Walt 1 seconds MINT Try rotating more th Is there a pattern?	e than 180 but less than 360	
d Resource			um C 120 degrees wat 1 seconds		

What key skills will I have by the end of this journey?

Ability to create a sequence using coding blocks

Ability to use loops to streamline my programming

Ability to draw a range of shapes using an app

Sequences with repetition	multiple times. Iterati continue repeating a outcome, unless that	am means that lines of code v ion is a term similar to repetition n action until you achieve the t desired outcome is not possion on are implemented using loop	on. It means to correct ible. Both	move 50 steps tum (* 120 degrees wait 1 seconds move 50 steps tum (* 120 degrees	move 10 steps turn 7 1	degree
Mediums and	Pasouroos			wall 1 seconds move 50 steps	HINT Try rotating more than 180 but is there a pattern?	ıt less ti
scratch – eitl	ner on IPads or Laptor	SORATOR	J	wat 1 seconds	τ.	<i>~</i>
			Му оц	tcome will be		
-		×		de an app for drawin ting sequences	g shapes using loops a	and
			<u> </u>			
Links to prev	ious and future learnir	ıg				

In Year 3	In year 4	In Year 5	In year 6	
Apply knowledge of inputs and outputs to a Spike project	Use loops and sequences with repetition	Use procedures with conditions and conditional starts	Develop an app/ game/ device using knowledge of coding	
project			ocanig	