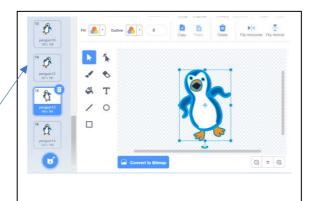
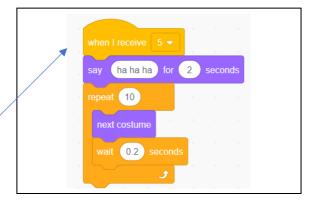




Key Learning	Self-Assessment		ent
	WT	Α	WA
I can change the background			
I can upload a sprite from the sprite			
library			
I can change costumes of my sprites			
I can add the music extension block			
to a scratch file			
I can duplicate and edit sprites using			
the drawing tools in scratch			
I can create a sequence – a set of			
programming blocks to play a tune			
I can create a controlled count loop			
'repetition' – a sequence of			
instructions that is repeated a certain			
number			
I can add a forever loop to my code			
I can save my work (either to a			
computer or in my scratch account)			
I can create a broadcast message			
and use it in a block of code.			





I know about these loops	Continuous loop example	Controlled loop example	Conditional Loop
Design Level (Algorithm & objects) Language a human will understand,	Always loop step forward jump Loop all the time step forward jump	Do 3 times nod wave clap	Do until key is pressed Jump Hop Jump
Code Level How this might look as code	when this sprite clicked forever next costume play note 102 for 0.25 beats wait 0.5 seconds	when this sprite clicked repeat 3 next costume 15 play note 61 for 01 beats next costume 25 play note 69 for 01 beats	repeat until key space pressed? move 10 steps turn C 15 degrees move 10 steps

Key words and prior learning from year 3 programming units

Program – a set of instructions in a language that is understood by a computer

Code blocks – the instruction 'block' that joins together to make a program

Sprite – name given for a character in computer software Visual or Scratch

Debug - Look at your program and find where there is a problem and fix it

Unplugged – this is a computer science activity that does not need a computer

Visual – block based programming language by J2e

Repeat loop – this is used in a program when we need to repeat something

Nested Loop – this is repeat loop with another repeat loop 'inside' it

New key words we will use in year 4 Scratch Programming from Algorithm to Code

Scratch –block-based programming language by MIT

Controlled count loop - this is used in a program when we need to repeat something a number of times

Input - this is an event that triggers an action/code block

Costumes – the way a sprite looks – these can be used to show movement

Broadcast – an input that can be used to trigger events



Who uses skills like these?

- Computer game makers
- Computer programmers when they design and make software to solve problem.
- App makers