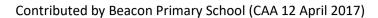




Level:	Primary 2			
Name of Module:	Micro:bit (E	Micro:bit (Enrichment programme)		
Lesson Title:	Emoji	Emoji		
Lesson Number:	2	Duration:	60 min	
Objective(s) of Lesson:	1. To displ	After completing the lesson, students will be able to code the micro:bit  1. To display an image on the 5x5 LED  2. To display an animation using the LED		
SEL	Relationship Management - Respect and appreciates his/her friends - Appreciates and accepts differences in opinions			
Resources:	Laptop (with internet access), micro:bit			

Time and Activity	Description	Remarks
Introduction to	Recall that coding is a language that allows us to give	
Coding	computers and devices instructions.	
1 min		

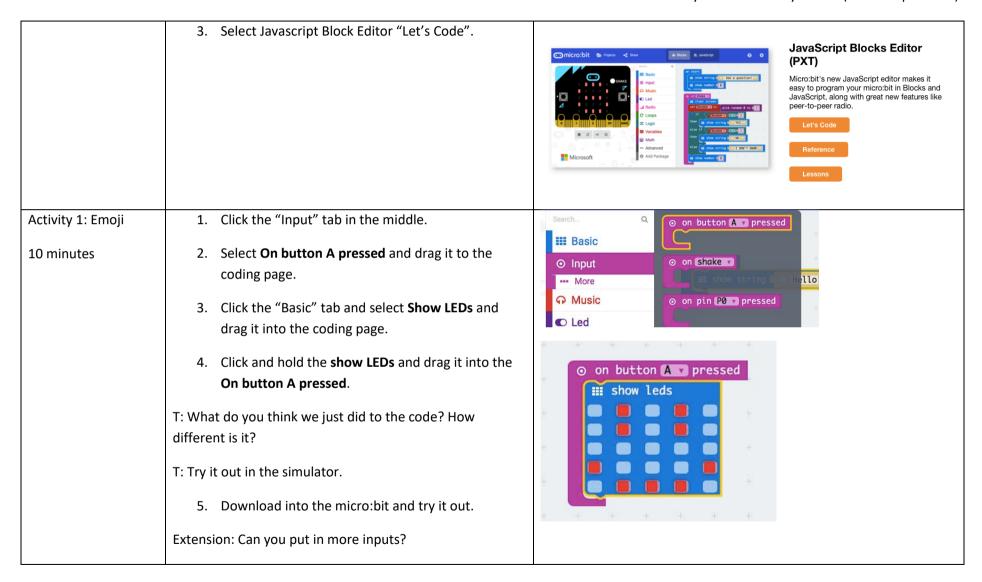


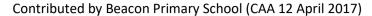


Introduction to	Students to be in pairs.	Students may need some practice connecting the battery and USB
hardware	1 computer to each pair	cable to the main board.
4 minutes	2 sets of micro:bits to each pair	Teachable moments: In pairs, students may always provide help to each other. Highlight such behaviour and emphasise that more of
	Introduce parts of the microbit	such positive behaviour should happen during the lesson.
	- The main board	
	- USB cable (power and programming)	
	- Battery for power	
	If the USB cable is plugged in, there is no need to connect the battery.	
Preparation	1. Students to log in to the URL microbit.org	→ The Morpital Foundation A  → □ □ □ morpital ang
5 min	2. Click on "Let's Code"	GET CREATIVE, GET CONNECTED, GET CODING.  Cod Based  Line Cod  Lin

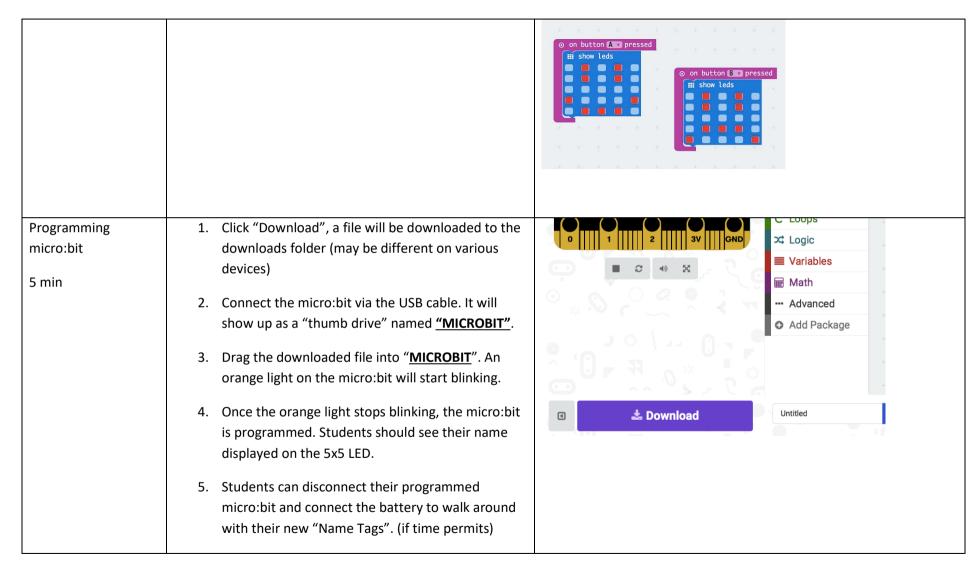


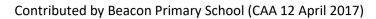






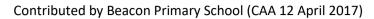








Activity 2: Animated	1. Ask students to think of a person doing a jumping	on button AT pressed
emoji	jack (might have to demonstrate to them)	iii show leds
<b>,</b>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
10 minutes	2. Drag in more <b>show LED</b> place them in line under	III show leds
	one input	
	T: What do you think will happen when I press button A?	III show leds
	T: The top image will show, then the second, third and last	
	image. How many images will we see?	
		iii show tees
	3. Try your own images, and make your own	
	animation.	
Activity 3: Repeats	Since there is a pattern, can we repeat the pattern a few	****
	times?	on button A pressed repeat 4 times
15 minutes		do III show leds
	1. Click "Loops" tab and select <b>repeat 4 times</b> and	
	drag it out to the coding page.	
	2. Insert repeat 4 times below on button A pressed.	## show leds
	3. Move the first 2 LED patterns into <b>repeat 4 times</b> .	
	T: What do you think will happen now? Let's try it out.	
	1. What do you think will happen how? Let's try it out.	
	4. Download into their micro:bits and show to their	
	friends.	
Conclusion	T: We justused the microbit to make the LED move, this is	
20.10.031011	The justices of the microsic to make the LES move, this is	





5 minutes	called animation. Moving images.	
	T: Did you manage to create your own animations?	
	T: Did you see anything interesting from your friends and their animations?	
	T: We have different interests and opinions, and we should appreciate our friends and their opinions. We can't all be	
	like same things.	
Pack up	Return all equipment and materials.	
5 min		