Basic coding

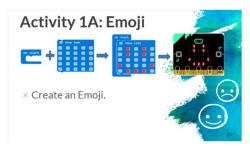
Programme: ALP Level: Secondary 2

Theme / Challenge

Statement:

Summary

Students are exposed to the microbit for the first time, after learning about the basics of coding through online programmes such as the hour of code.



Prior Knowledge:	Students should already know: 1. simple coding using "blocks" 2. Electric circuits 3.
Learning Objectives:	By the end of the lesson, students should be able to: 1. Use the microbit to display information using the LED 2. create a customised emoji to display on the LED 3.

Time	Teacher Activities	Purpose	Resources Needed
Introductio	n/Pre-activity		
10 Min	Introduction to the microbit.	To let the students have a	Video
	What is the microbit, what are	better understanding of	Handouts
	the features on the microbit,	what the microbit can do.	Powerpoint slides
	what the microbit can do.		
Lesson deve	elopment/Main activities		
10 Min	Introduce the layout of the	To explain how the	laptops
	online coding platform.	platform works	Microbit
	https://makecode.microbit.org/		
	Distribute microbit		
5 Min	Explain how to :	To teach students how to	laptops
	Create new projects, save files,	transferring information to	Microbit
	Transfer hex files to mirobit.	the microbit.	

30 Min	Activity 1A: create an emoji Activity 1B: tick cross using buttons A and B	To use the 5 x 5 LED display on the microbit. To use buttons A and B to display different images.	laptops Microbit
Closure and consolidation/Post-activity 5 Min Collection of materials		and pray american mages.	

Please send this template, together with any additional resources, e.g. Powerpoint slides, worksheets and .hex file, to: digital_maker@imda.gov.sg.

Co	ntri	but	ted	by:	:
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Name of School: Ang Mo Kio Secondary

Name of Teacher (Optional):

Date: 26 Jan 2018