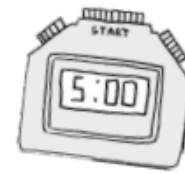
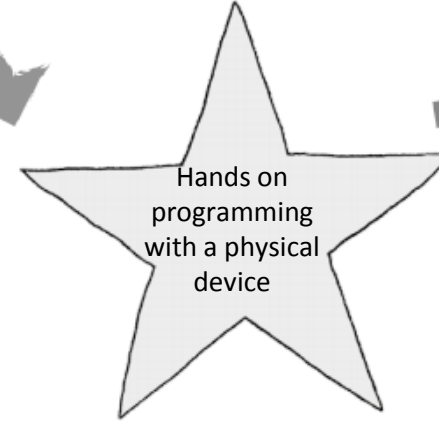


# 5 MINUTE LESSON PLAN

...photocopy or download, and scribble your way to smarter lesson planning!



## ENGAGEMENT



## STICKABILITY

micro:bit can be programmed with JavaScript Blocks editor using a .hex file.  
Program can then be edited.

## ASSESSMENT

The students can

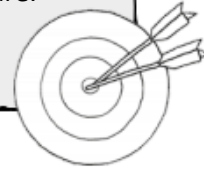
- Use a gesture input to control the micro:bit.
- Create a randomly generated variable
- Use an IF...THEN...ELSE
- Display own patterns on the LEDs

## THE BIG PICTURE

Use the micro:bits to build useful tools.

## OBJECTIVES

To display the roll of a die following a shake gesture.



## KEY WORDS

Variable  
Gesture  
Random  
IF THEN ELSE



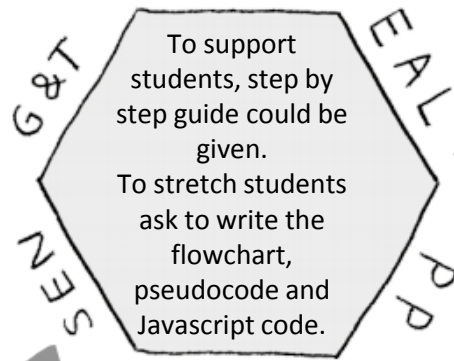
## NUMERACY PROVISION

Number ranges  
Random Numbers



## DIFFERENTIATION

To support students, step by step guide could be given.  
To stretch students ask to write the flowchart, pseudocode and Javascript code.



## LEARNING EPISODES

### TEACHER OR STUDENT LED?

Teacher led introduction of the task, showing a working solution on a micro:bit.  
Algorithm written as flowchart / pseudocode.



### TEACHER OR STUDENT LED?

Student led investigation of the software and developing programs.  
Student to download and test program on micro:bit



### TEACHER OR STUDENT LED?

Teacher led discussion of the program.  
Student led development of the program via other tasks.



### LAST MINUTE CHANGES

A test could be carried out with real dice to test how random the micro:bit random number generator is compared to real world

