

Year 7 – Micro:bit Coding Challenges

This lesson is designed to develop your skills programming a BBC Micro:bit

Introduction:

Hopefully you will already be familiar with using a BBC Microbit. Although you will most likely not have a BBC Micro:bit at home, you should be able to still create some code and see it working in the simulator on the BBC Micro:bit coder web page. If you save your project files you may be able to try your code on an actual BBC Micro:bit when we all return to school.

In order to familiarise yourself with how to use the online code editor, please watch the following video clip:
<https://youtu.be/dFE9R-C9fV4>

Task 1:

Load the BBC Microbit coding editor using the following link:

<https://makecode.microbit.org/>

Click on NEW PROJECT

Choose one of the following coding projects and try to assemble the code required using the online code editor. A brief description of each challenge and tips for which blocks to use are included in the document: 'Year 7 Microbit Challenges'.

- 01-Fortune Teller
- 02-Rate Your Mates
- 03-Reaction Timer
- 04-Target Number
- 05-Timed Target
- 06-What's The Score

Try to assemble the required code to complete the challenge without any help.

If you are really struggling, look at the 'Challenge Solutions' document for information on one way to assemble code to complete each challenge. You will need to ask the teacher taking the lesson for the password for the document.

Task 2:

Once you have completed a challenge and are confident the program works as expected, take a screenshot of the assembled code blocks and send it to the teacher taking the lesson.

If you finish both tasks try completing another challenge.