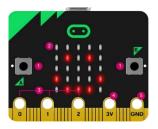


## **Year 7 Microbits - Rocket Ship Stability**



Although you are not in school and we can't use the actual BBC microbits we can still do some coding using the web site simulator.

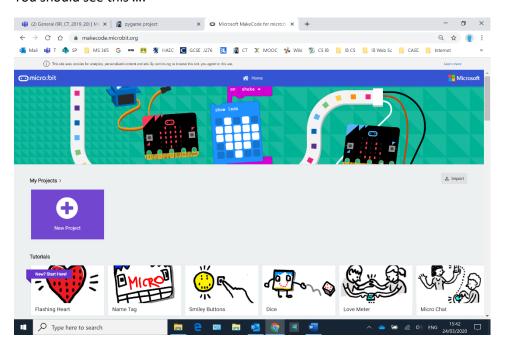
## **Getting started.**

Go to the following website:

https://microbit.org/code/

Click on the MakeCode editor button.

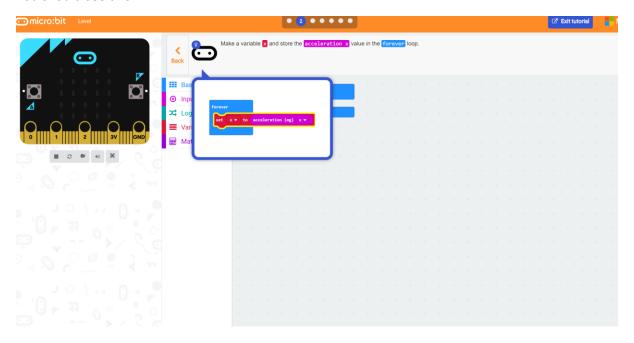
You should see this ....



Start by scrolling down and clicking the 'Level 'tutorial.



## You should see this



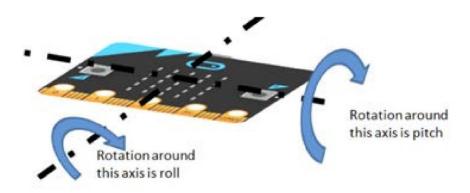
Follow the instructions to create the program.



The simulator (above) allows you to run the program as though you had a microbit with you.

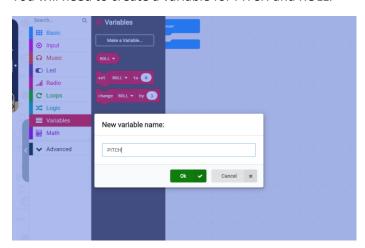
## **Rocket ship stability.**

The idea here is to create a program for the microbit that shows whether the rocket is level or not using pitch and roll.



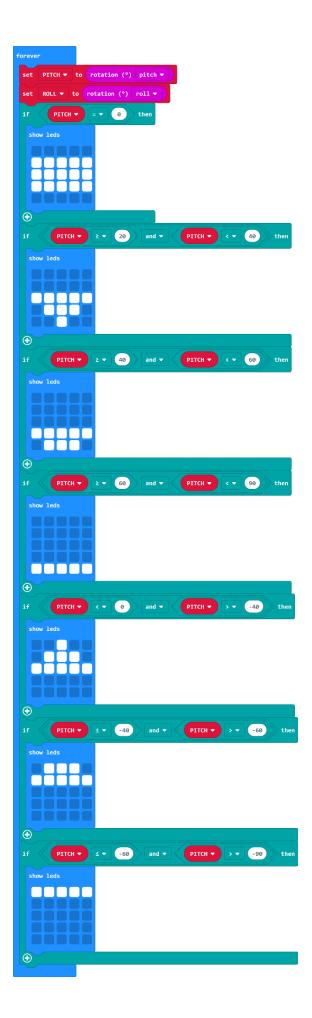
Create a new program and add the following code.

You will need to create a variable for PITCH and ROLL.



Full code is on the following page. (Be careful with the '-' values).

Look at the 'Rocket Ship Stability' video to see how it should work when complete.



Extension task.

Now try to do the same for PITCH.