STEP COUNTER
micro:bit PROJECT

Turn your micro:bit into a step counter (or pedometer) to help you track how active you are - and learn some coding at the same time!

TASK 1 – MAKE IT

How it works

• Like the Dice project this program uses the micro:bit's accelerometer to make something happen.

• It counts how many times the micro:bit has been shaken. It stores this number in a variable called 'steps'.

• Variables are used by computers to store information that may change, such as the number of steps you've taken.

• Every time the micro:bit accelerometer input senses a shake, the program increases the variable by 1, and shows the new number on the LED display output.

What you need

• micro:bit (or MakeCode simulator)
• MakeCode or Python editor
• battery pack (optional)
• something to attach the micro:bit to your shoe or leg – string, tape or hook & loop.

These two videos show you what you'll make and how to code it:

To watch these videos, please view our micro:bit playlist:
Youtube/rapideducationtv

TASK 2 – CODE IT

TASK 3 – IMPROVE IT

• Add a button to reset the steps to 0.
• Add a graphical representation of how many steps you've taken.
• Measure the length of your average step and get your micro:bit to multiply this by the number of steps to calculate the distance you've walked.