



***CODING WITH  
MICRO:BITS***

# HELLO!



My name is Chris Chick

We will be looking at how to program a Micro:bit without prior programming experience

It will be fun and exciting



**1.**

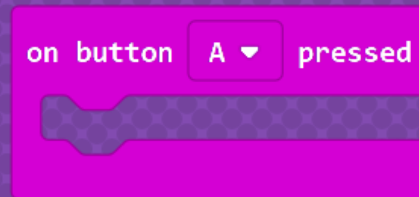
***WHAT IS A MICRO:BIT***

***"THE MICRO BIT (ALSO REFERRED TO AS BBC MICRO BIT, STYLIZED AS MICRO:BIT) IS AN OPEN SOURCE HARDWARE ARM-BASED EMBEDDED SYSTEM DESIGNED BY THE BBC FOR USE IN COMPUTER EDUCATION IN THE UK"***

## ***WOW, THAT WAS A MOUTHFUL. WHAT DOES THAT MEAN.***

- × Micro:bits were created to accelerate the learning of creating code
- × A simplified environment where you can put code together with interlock blocks
- × No prior knowledge of code is required to start making projects with the Micro:bits

# BLOCKS OF CODE



## ***BLOCKS OF CODE???***

By using a blocks of code the students will learn the context of coding without having to write any code by hand.

This accelerates the learning process so they can learning the basics without having to worry about how to structure the code by hand





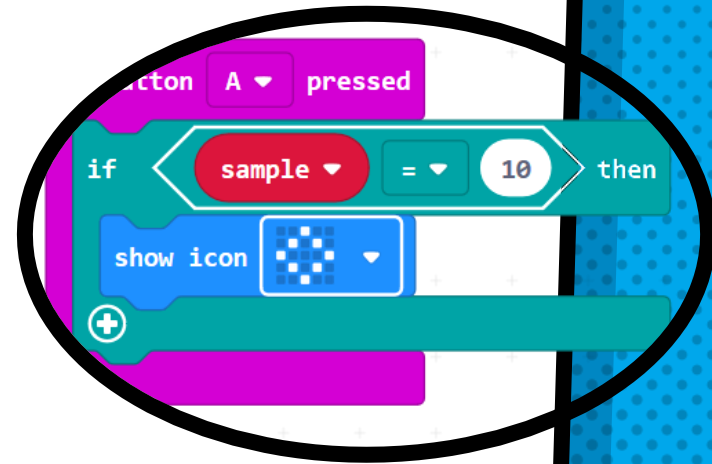
**2.**

***OVERVIEW OF THE  
BLOCKS***



# ***INTERLOCKING BLOCKS***

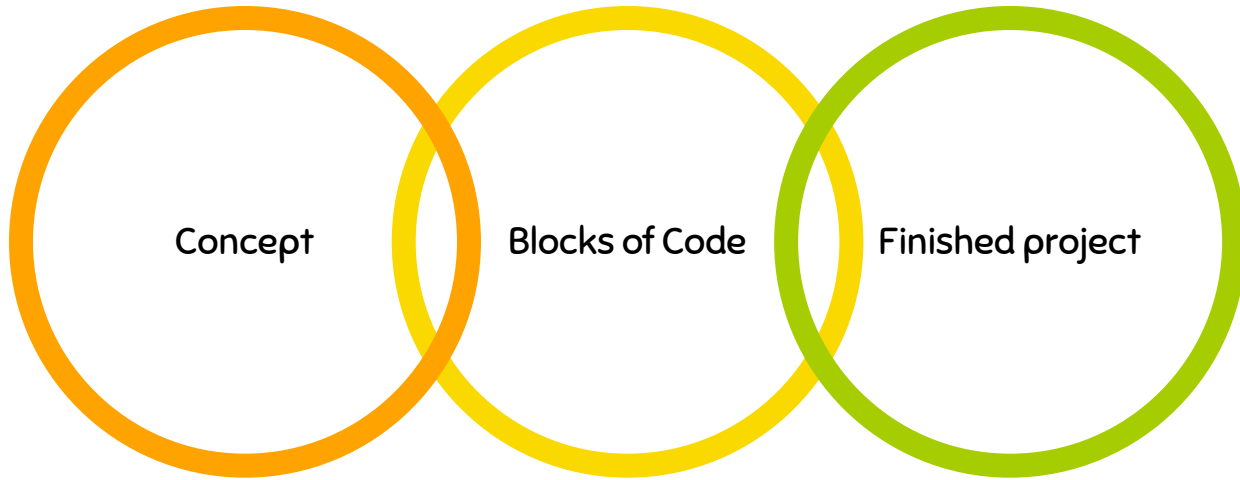
The blocks of code interlock to allow students to quickly understand the flow of their code and easily see how changes will affect the outcome.



***THAT IS MUCH FASTER THAN  
THE PEN AND PAPER APPROACH***



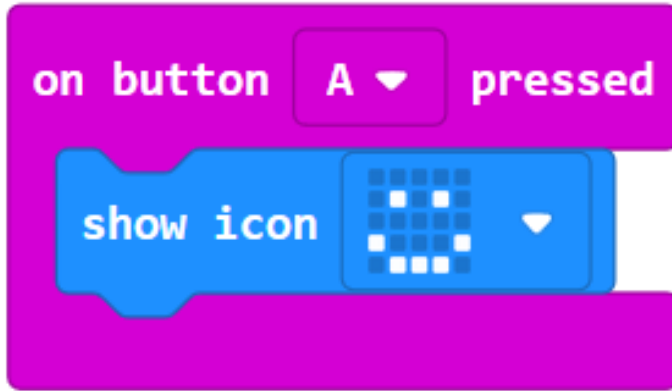
# ***VISUALIZE WHAT YOU ARE TRYING TO DO***



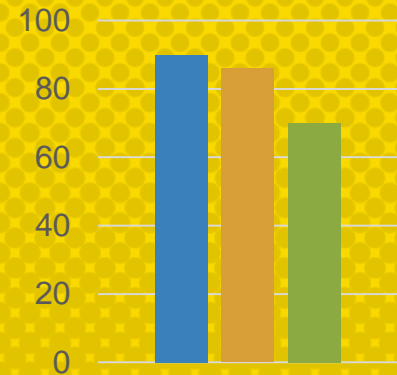
## ***A QUICK EXAMPLE***

- × I want to display a happy face when I press the “A” button
- × Find the blocks that will help to accomplish the task
- × Put the blocks together to see if flow is correct to accomplish what you want to do
- × Profit????

**IT'S  
THAT  
EASY**



From a recent impact study has shown that 90% of students said the micro:bit showed them that anyone can code. 86% of students said the micro:bit made Computer Science more interesting. 70% more girls said they would choose Computing as a school subject after using the micro:bit.







**3.**

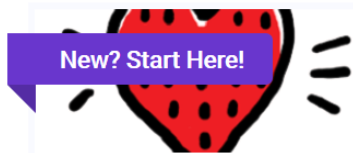
***BUILT IN TUTORIALS***



# [HTTPS://MAKECODE.MICROBIT.ORG](https://makecode.microbit.org)

The website that is used to program with these blocks contain a large amount of tutorials that walks a person through, step by step, on how to program concepts. It limits the amount of blocks you can choose from to just what is required for the current project. Using these tools you can teach out to the students how to start with programming without having even used the program before.

## Tutorials



Flashing Heart



Name Tag



Smiley Buttons



Dice

***THANKS!***



Any questions?

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