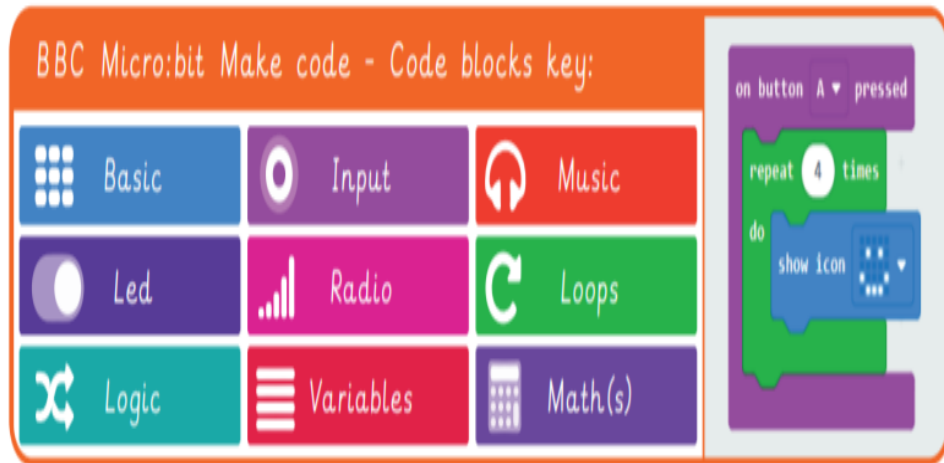| Castlefield School- Computing			
Topic: Micro:bit	**Year:** Five	**Theme:** Designing, writing and debugging programmes.	

How to use computers purposefully and safely.

- Explore the BBC Micro:bit and find out what it can and cannot do.
- Use the Micro:bit to work out how an animation is created and program your own.
- Design a survey using Micro:bit to record the data.
- Create a pedometer device by programming and debugging the Micro:bit.
- Program Micro:bit to be the scorecard for a rock, paper, scissors tournament.

Key Skills – using code blocks to build programs.

BBC Micro:bit Make code - Code blocks key:

Basic | Input | Music
Led | Radio | Loops
Logic | Variables | Math(s)

on button A ▾ pressed
repeat 4 times
do show icon

Key Vocabulary

Bluetooth	Device to device wireless connectivity – for example, between phones.
Code blocks	A visual representation of a section of code that can be snapped together (often called 'drag and drop') to build a program.
Decompose	To break something into smaller chunks – in computing, to solve a problem.
Emulator	A program or machine designed to copy the way another computer system works.
Loop	A repeated sequence of instructions.
BBC Micro:bit	A small computer that can be programmed using code.
Pedometer	Device used to record the number of steps taken and calculate distance.
Predict	Make a guess, based on the information you have, about what might happen in the future.
Systematic	Doing something in an ordered and logical way to achieve a goal.
Variable	Something (often a number of text) that can change each time a program is run and may alter the end result of the program.

Websites to help:

Discover the BBC Micro:bit at:

https://microbit.org/

Other fun coding activities can be found at:

https://code.org/learn

Once you have mastered the drag and drop blocks, challenge yourself with JavaScript!