









INTRODUCTION

The BBC Micro:Bit is a pocket-size computer with a 5x5 display of 25 LEDs, Bluetooth and sensors that can be programmed by anyone. The BBC Micro:Bit was made possible by many partners. The micro:bit provides an easy and fun introduction to programming and making switch on, program it to do something fun wear it, customize it. Just like Arduino, the micro:bit can be connected to and interact with sensors, displays, and other devices.



PROJECT OBJECTIVES



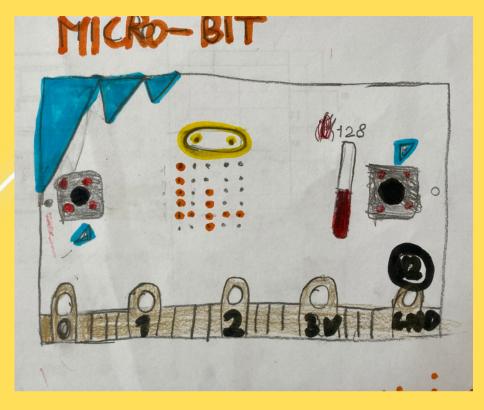
OBJECTIVE 01 Presentation of Micro-Bit to the classroom

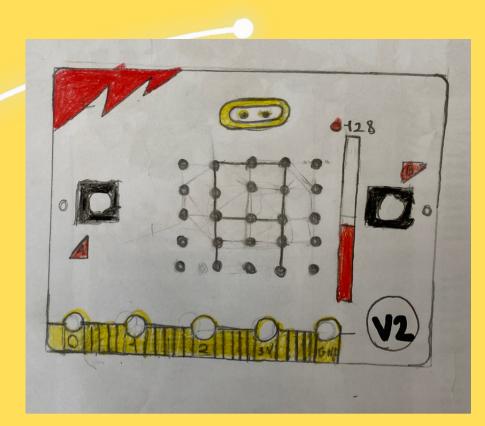


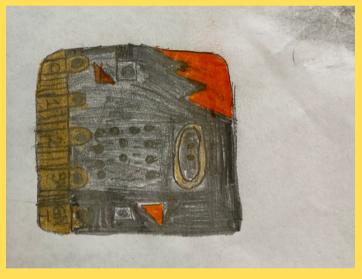
OBJECTIVE 02 Pratical tests in classroom to construct sequences of instruction capable of producing effects



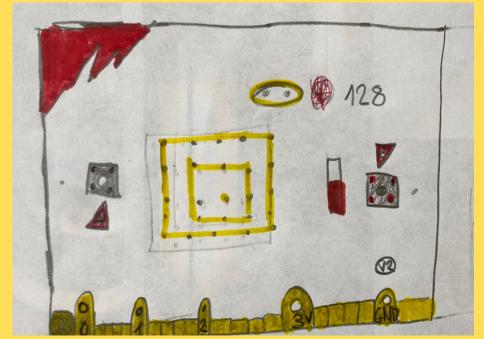
OBJECTIVE 03 Programming of Micro-Bit to detect the temperature external testo Shared design using Micro-Bit

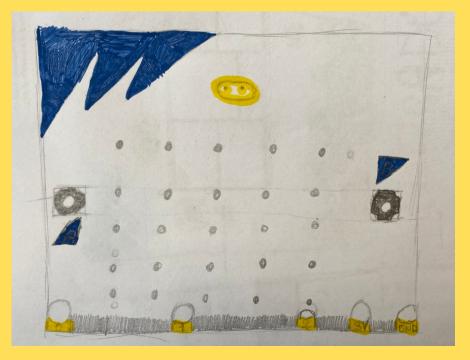




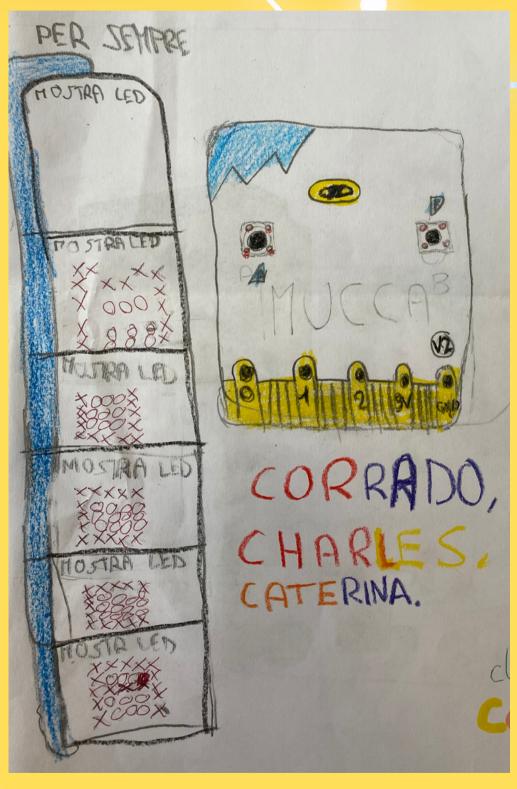


After the presentation, the children in groups made drawings on the structure, how the Micro:Bit works and the activities they would like to do with it.





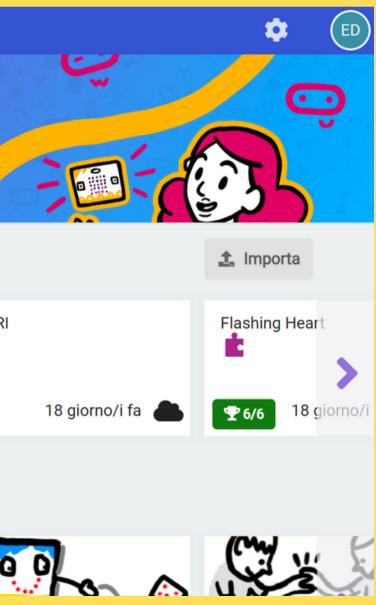
OBJECTIVE 01



How to Program Micro-Bit? There are more than one tools available to program Micro-Bit.

The most widely used programming environment is certainly Microsoft MakeCode, an easy-to-learn visual tool with a convenient online simulator. Another tool available for programming is Scratch It is also programmable in JavaScript.

Introduzione a BBC micro:bit Visualizza guida			
I Miei Progetti Visualizza tutti			
H Nuovo progetto	Termometro Classe 4 B - F	Clap Lights	NER
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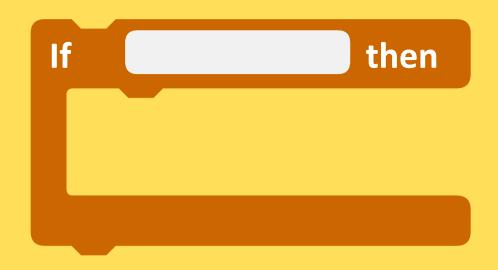


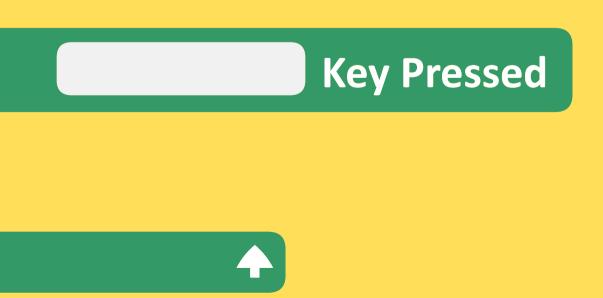


To program, simply drag blocks of code on to the canvas and snap them together. All this will be facilitated by a similar approach to constructions: function blocks that are compatible with each other will show complementary interlocking points. (Very similar to Scratch)





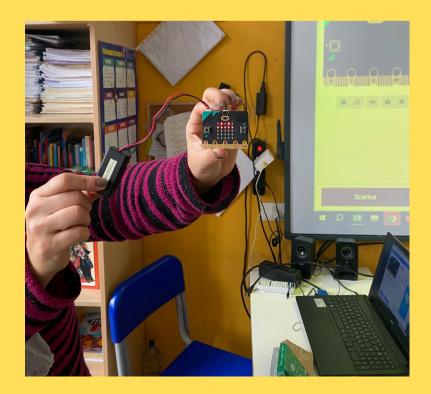


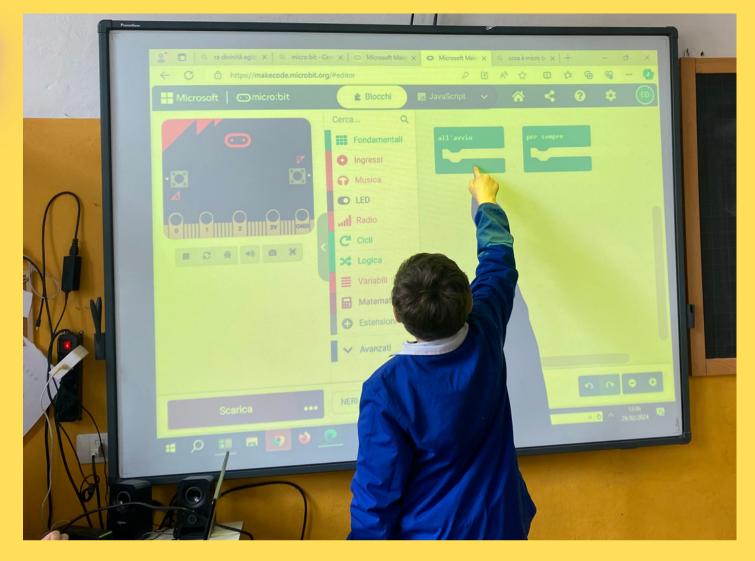


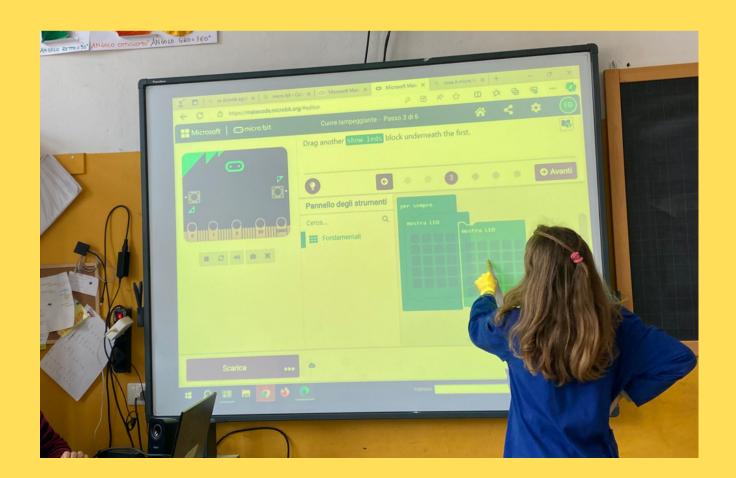
OBJECTIVE 02



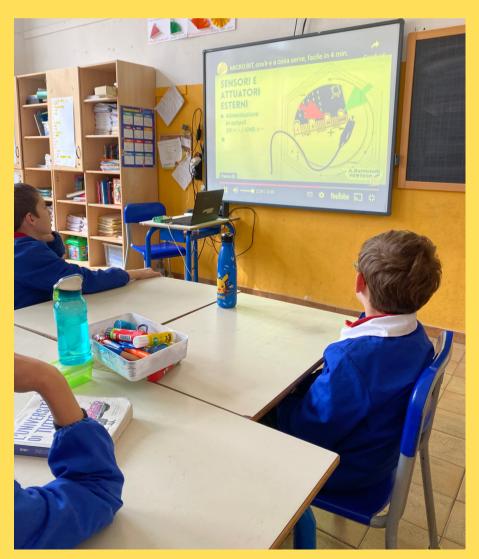
After presenting the Micro:Bit to the class, a practical test was done. The students had fun giving sequences of instructions to the micro:bit which caused effects such as a flashing heart or moving names.















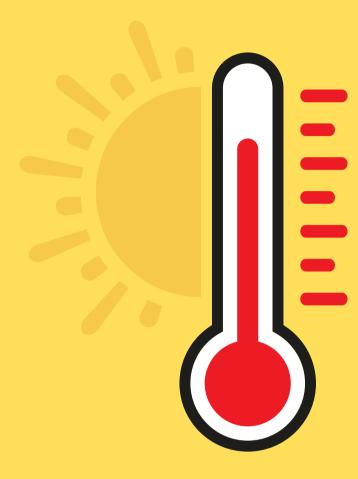
We program Micro-Bit to be used as a thermometer

In the Micro-Bit processor we have a sensor that measures the temperature very precisely The temperature will appear on the matrix LEDs

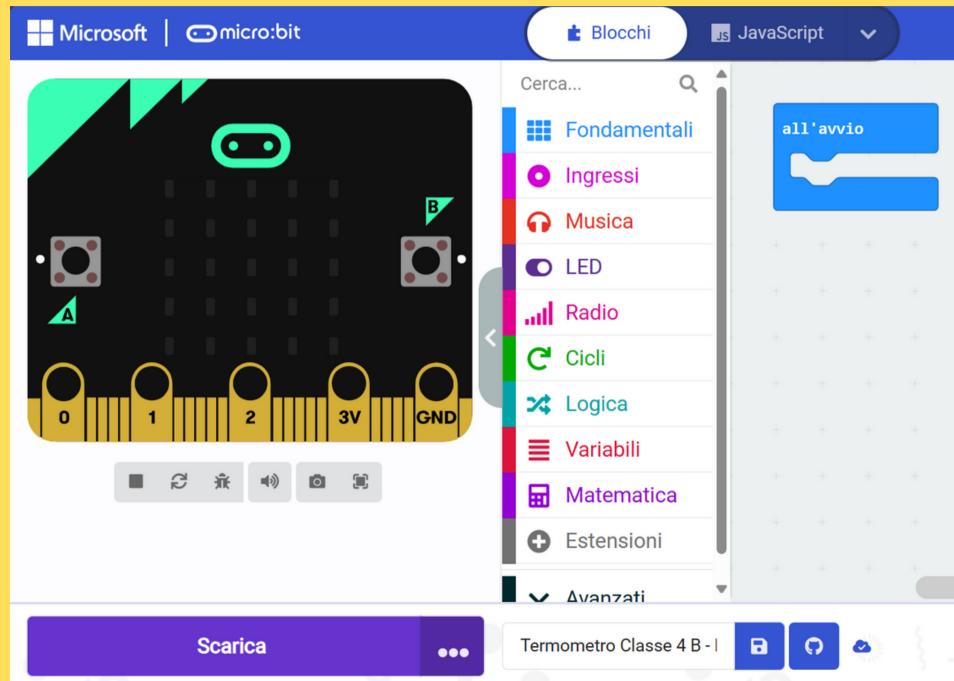


Come on, let's get started!

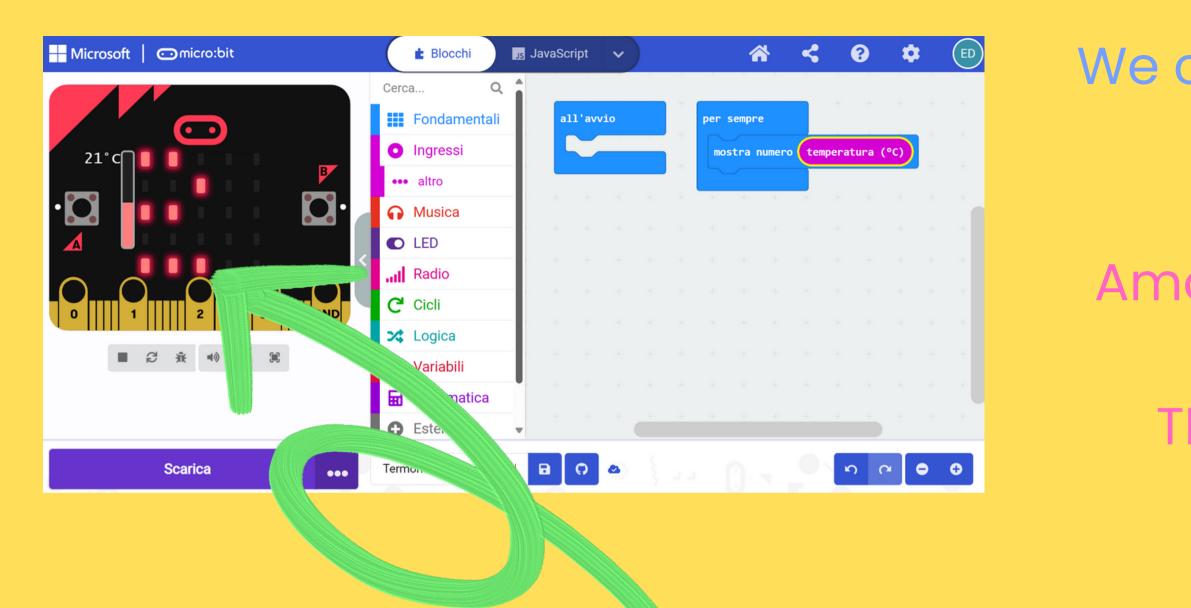




Students work in groups on the computer using Microsoft MakeCode

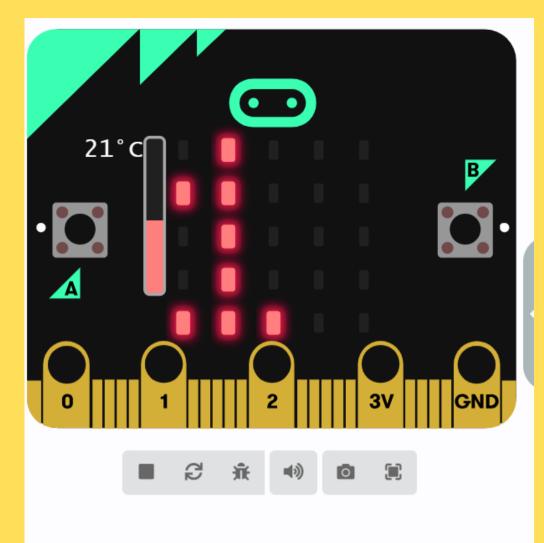


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We can see that the number representing the temperature begins to flow in the matrix

We choose the building blocks FOREVER and SHOW NUMBER Among the INPUTS blocks, we choose **TEMPERATURE** in degrees Celsius



(Download) The blocks with the instructions are downloaded to Micro Bit so that it can be tried by the kids as a thermometer

 $\bullet \bullet \bullet$

Micro Bit is ready. Students check their temperature indoor in the classroom and outdoor .



Micro Bit is a simple tool for Primary School to develop computational thinking while gaining experience in coding, robotics, making and tinkering! Micro Bits can also be a STEM solution for our students who are ready to program a new experience

FEBRUARY 2024

CLASSE 4 B TEACHERS: GRAZIELLA LO VETRO ELISABETTA DONDOLI

