

Numeracy and
Literacy through
coding and robotics.

Virtual Mobility
March 2021

Hosted by: Italy

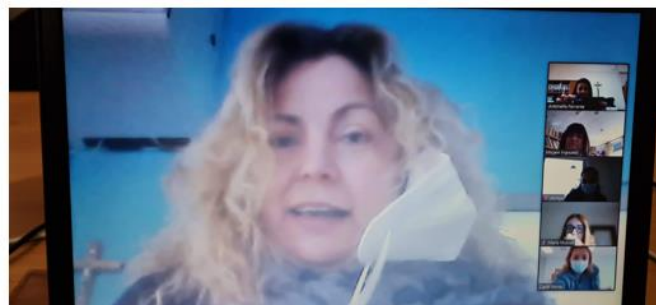


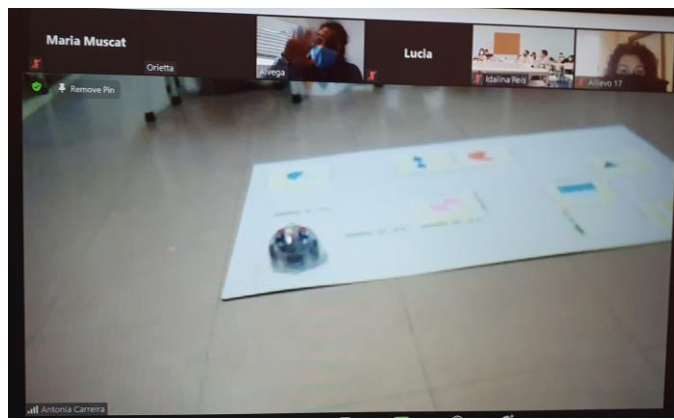
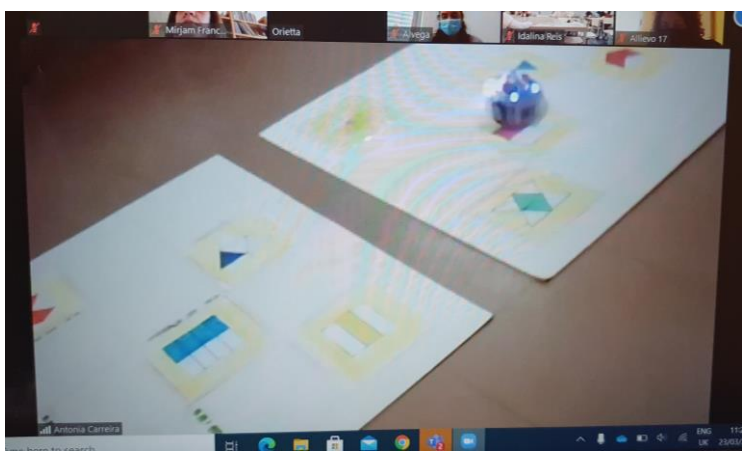


Day 1

1st Activity:

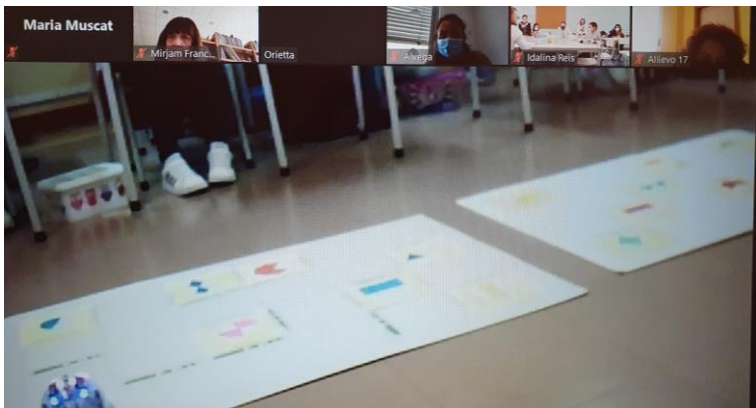
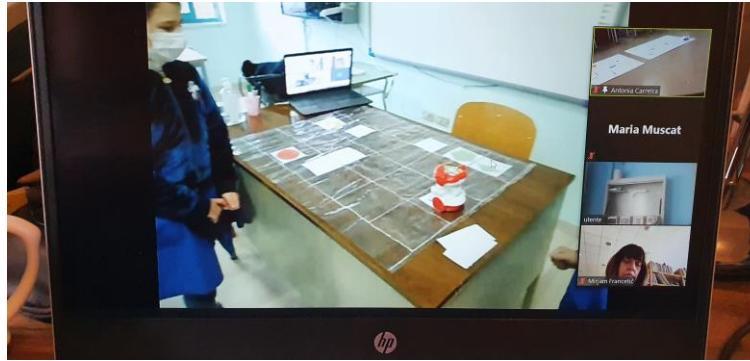
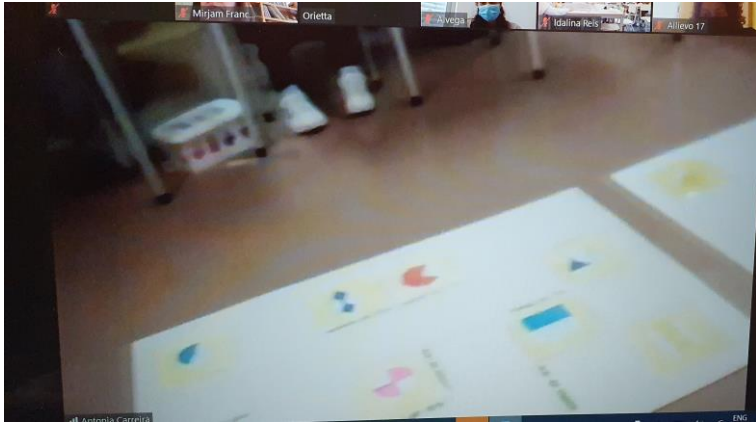
Welcome meeting and
virtual tour of Italy
and the school of San
Giovanni Bosco





Day 1

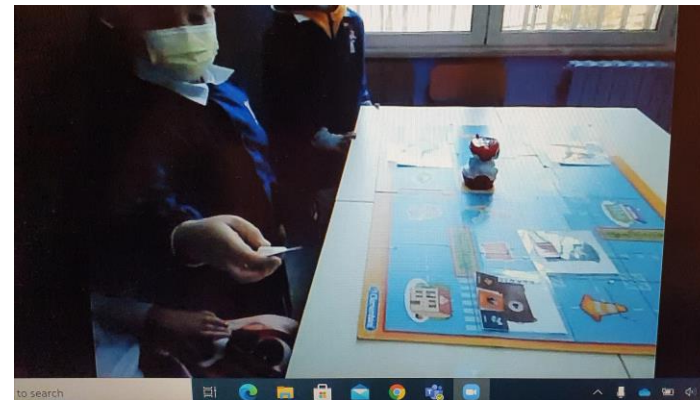
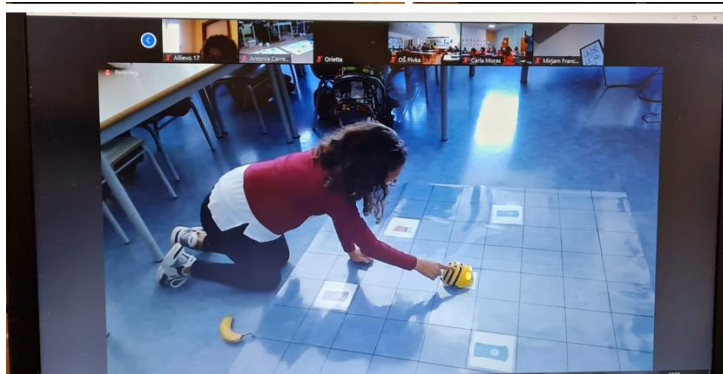
2nd Activity: Fractions through Doc





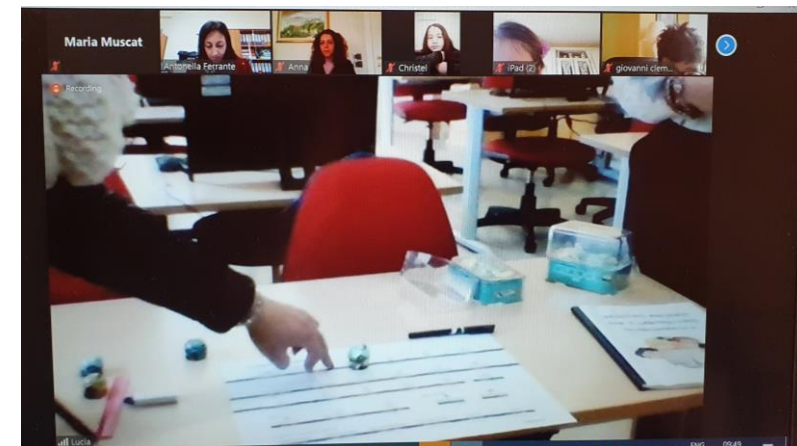
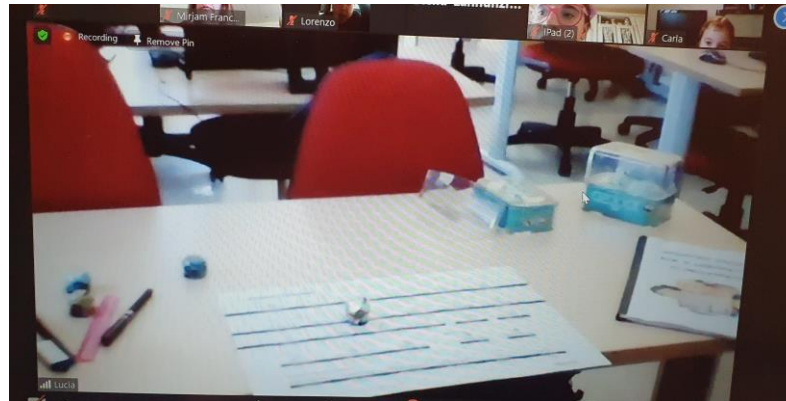
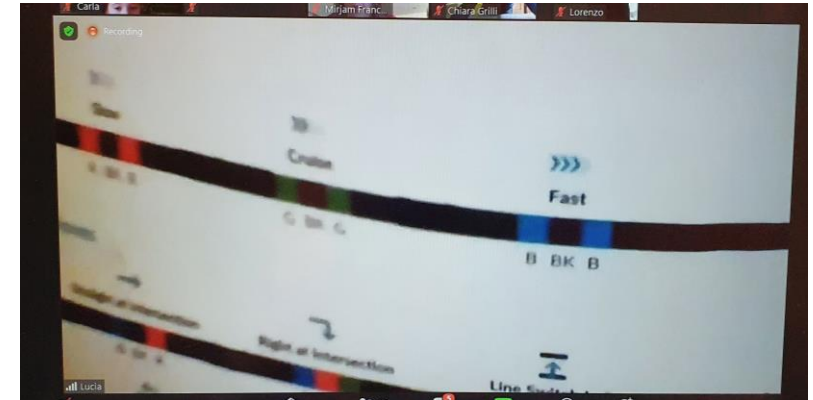
Day 1

3rd Activity:
Let's recycle



Day 2

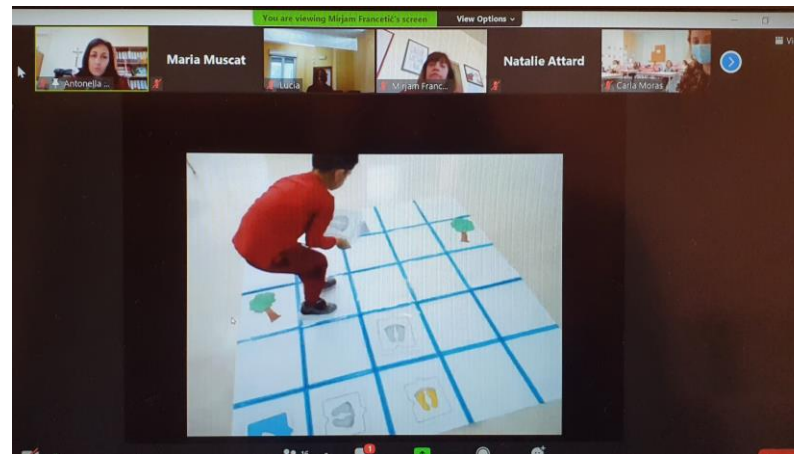
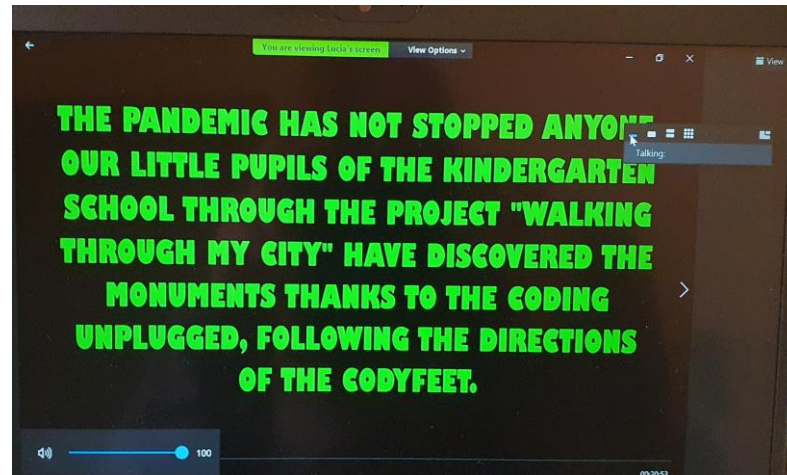
1st Activity:
Using the Ozobot



Day 2

2nd Activity:

Cody fit and cody colour
(unplugged activity with
younger students)



Introduction and knowledge of the parts of the MICRO:BIT

Erasmus project
NUMERACY and literacy through

Learning Objective

- To understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems.
- To understand how instructions are stored and executed within a computer system.
- To undertake creative projects using multiple applications across a range of devices.

Success Criteria

- To identify the main components of a BBC micro:bit.
- To know how sequence and iteration are used in computer programs.
- To create a digital cartoon program that responds to input events.

Day 3

1st Activity:
Introducing the
Microbit

Harness the Hardware

Quick Quiz
Can you remember the parts of the front of a BBC micro:bit?
Match up the parts with their correct names:

3v Power Part
Connector Pins
Button B
25 LED Matrix
Button A

Harness the Hardware

Before we get down to programming the BBC micro:bit ourselves, it makes sense to know exactly what the BBC micro:bit can do.

Firstly, let's look at the front:

25 LED matrix display (red light emitting diodes). Each LED can be individually programmed to be ON, OFF, or you can set the brightness between 0 and 255.

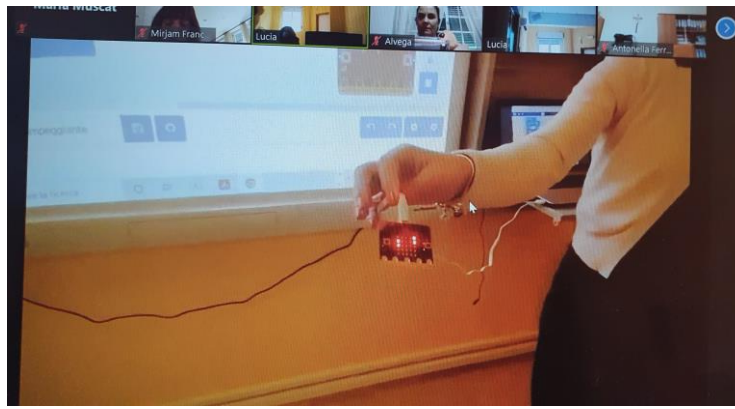
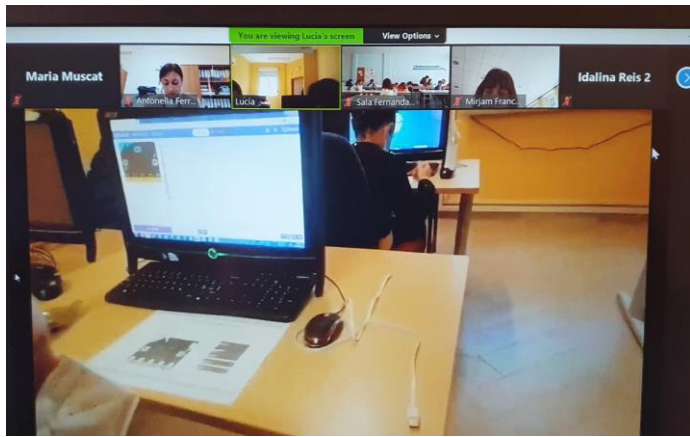
Bits and Blocks

Using a web-browser, go to this website:
<https://makecode.microbit.org>
(your teacher will show you where to find a shortcut for this link)

If you have a Windows 10 PC at home then you can download the makecode editor for free as an app from the Windows store:
<https://www.microsoft.com/en-gb/store/p/makecode-for-micro-bit/9pjc7sv48lxc>

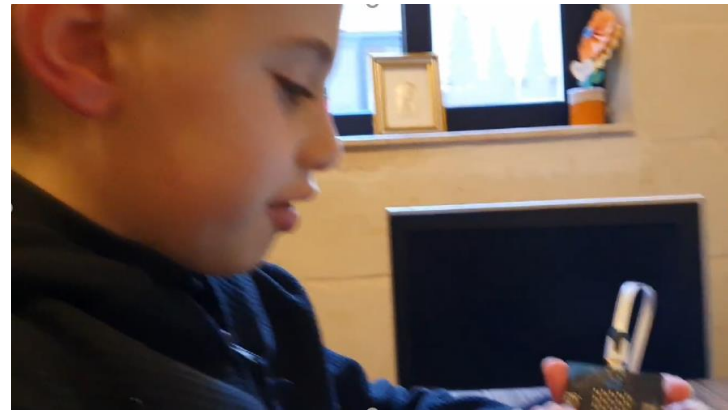
Bits and Blocks

Look at the different coloured blocks here.
Do these blocks seem familiar?
What other program do you know that uses blocks?



Day 3

2nd Activity: Using the Microbit



Thanks to all for
the lovely
experience!

