

TITLE: micro:bit – input
LEARNING SCENARIO

School:	Duration (minutes):	90
Teacher:	Pupils' age:	10

Essential Idea:

The micro: bit buttons become controllers which we use to move the puppy in space.

Topics:

- Pupils can solve advanced logical problems with and without usage of technology.
- Step-by-step, conditional instructions and events are utilized in problem solving tasks.

Aims:

- Pupils design and program in visual programming environment.

Outcomes:

- Pupils are able to describe the situations in their programs, where decision and input values should be used.

Work forms:

- individual work
- work in pairs

Methods:

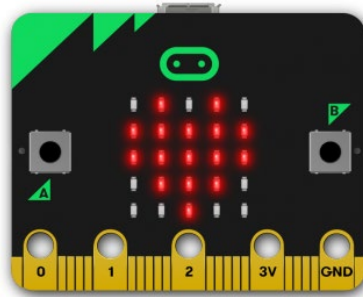
- presentation
- discussion
- graphic work

ARTICULATION

Course of action (duration, minutes)

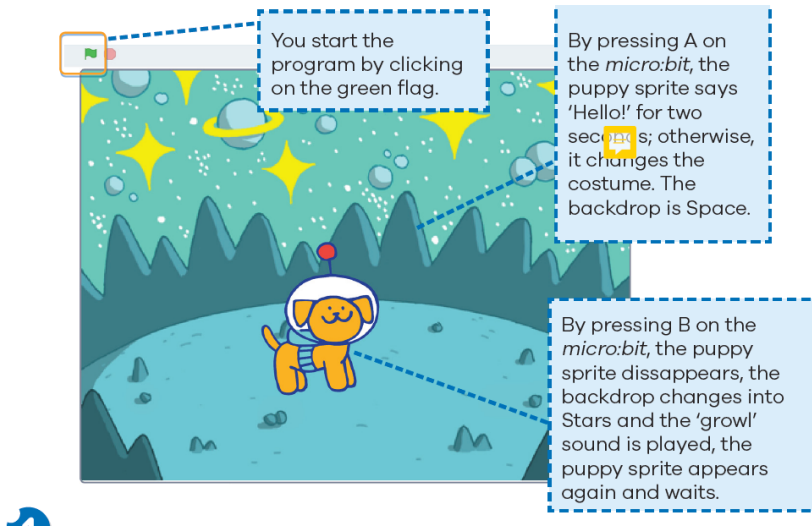
INTRODUCTION

Teacher explains and starts discussion:
How to use micro:bit as a controller?



MAIN PART

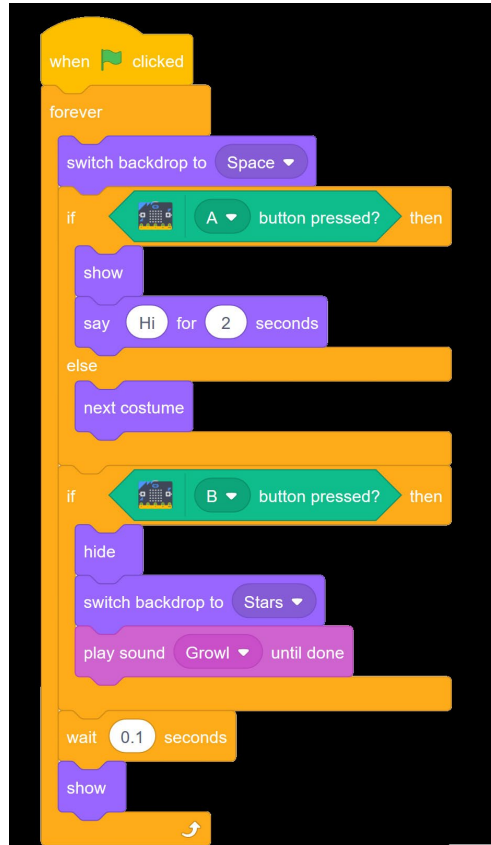
Teacher presents, explains:
The micro:bit buttons become controllers which we use to move the puppy in space.



Task stages:

Project co-funded by European Union under Erasmus+ Programme

- Load backdrop: Space
- Add a new costume to it: Stars
- Load the Dot sprite
- Correct errors in the program:



- Create the program in the Scratch.
- Save the project to your computer.

Teacher explores and chooses activities for students:

<https://microbit.org/projects/make-it-code-it/?filters=scratch>

Pupils solve tasks and present their solutions.

Pupils and teacher discuss and evaluate the presented solutions.

CONCLUSION

To successfully complete the task, it is necessary to set the steps in the correct order.
The teacher controls the pupils' solutions to the tasks.
Together they repeat the strategy they used in solving today's tasks.

Methods

presentation
discussion
work on the text
graphic work
interactive exercise /simulation on the computer

Work forms

individual work
work in pairs
group work
frontal work

Material

- micro:bit
- Scratch/ Scratch Online

Literature

- <https://microbit.org/projects/make-it-code-it/?filters=scratch>
- <https://www.e-sfera.hr/prelistaj-udzbenik/46eb0ba9-475b-4d5f-ab77-a264ae54f6a7>

PERSONAL OBSERVATIONS, COMMENTS AND NOTES