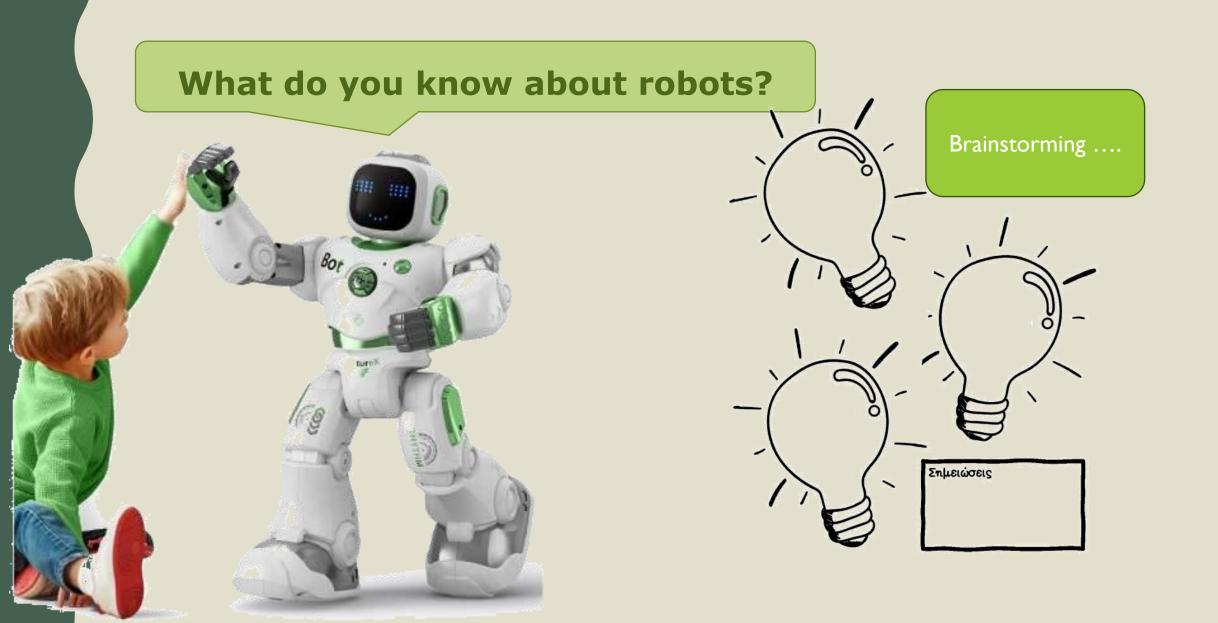
USING SCRATCH IN ROBOTICS

DESIGN TECNOLOGY - DIGITAL TECHNOLOGIESYear 6

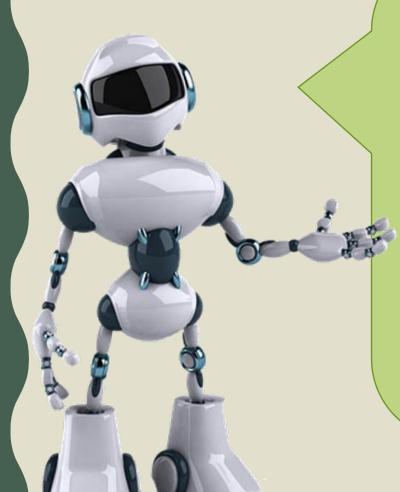
b Makedonitissa Primary School **Irene Petraki** (teacher – D&T Coordinador)



1. Introduction



2. Objectives



What we are going to learn ...

- ✓ Describing robots, their characteristics and everyday usages.
- ✓ Programing floor robot (InO-Bot) using scratch (e.g. movement, drawing shapes, using sensors) to solve problems.
- ✓ Using online games with scratch.
- ✓ Testing and improve our programs.

3. Investigation ...

What are robots...

- Machines that help people.
- They are programmed by people to do certain jobs.



What are their characteristics

- Programmed by people
- Using sensors
- Move (legs / wheels, arms)
- Do difficult works

Robota = hard work







4. Activities ...

✓ Using online games (based on Scratch)

FROZEN

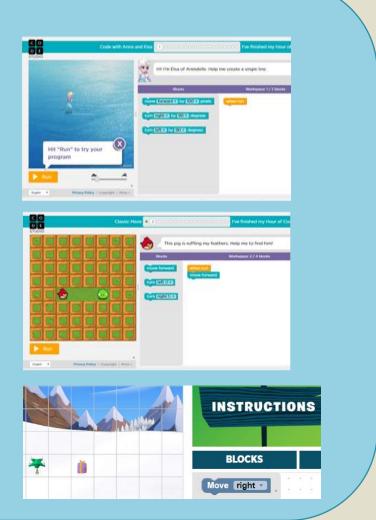
https://studio.code.org/s/frozen/stage/1/puzzle/1

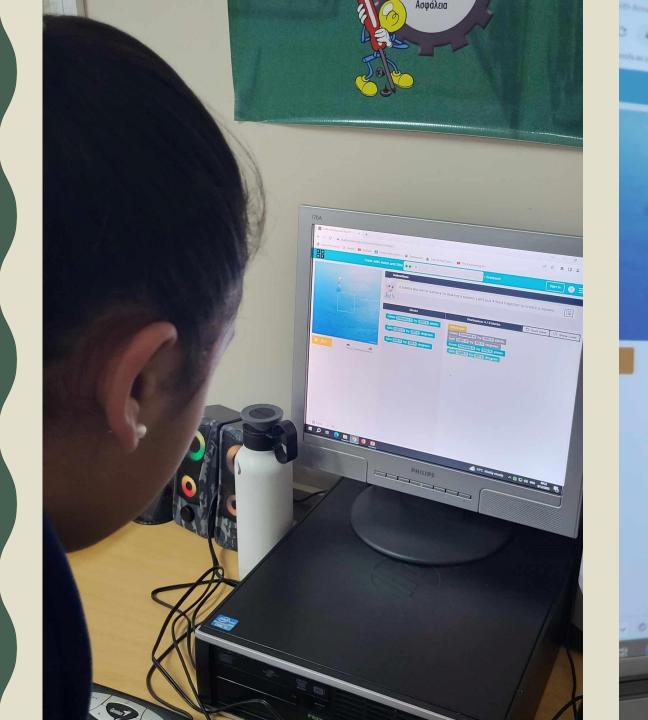
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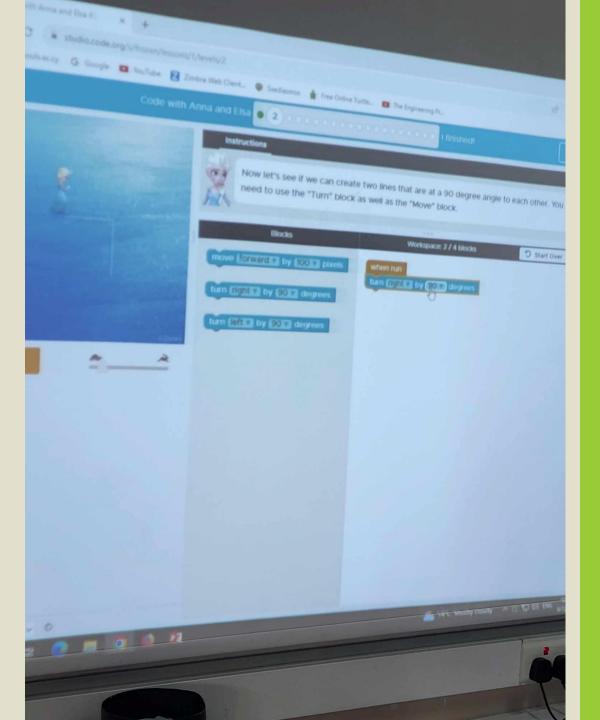
https://studio.code.org/hoc/1

THE GRINCH

https://www.grinchhourofcode.com/game.html







✓ Programming InO-BOT with Scratch



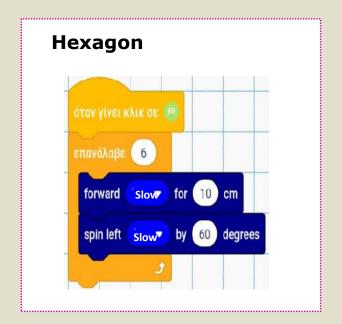
✓ Activities InO-Bot (worksheets)

Problem 1: InO-Bot with emergency lights

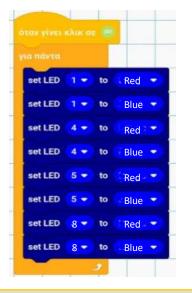
Problem 2: InO-Bot is drawing shapes

Problem 3: To InO-Bot explore obstacles

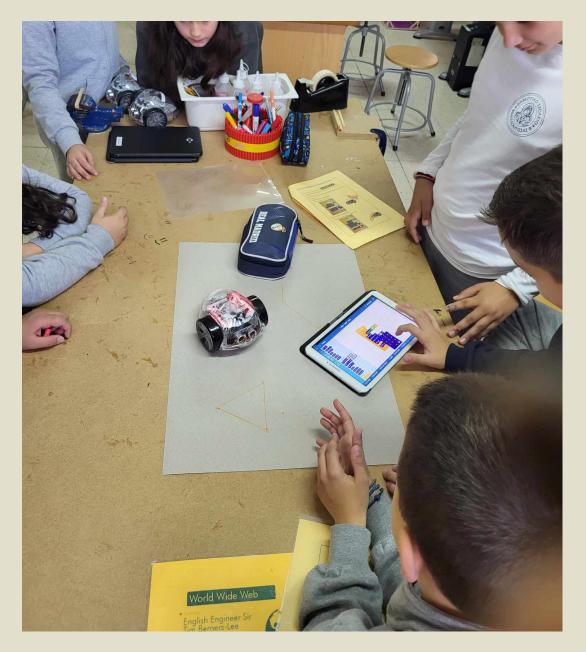


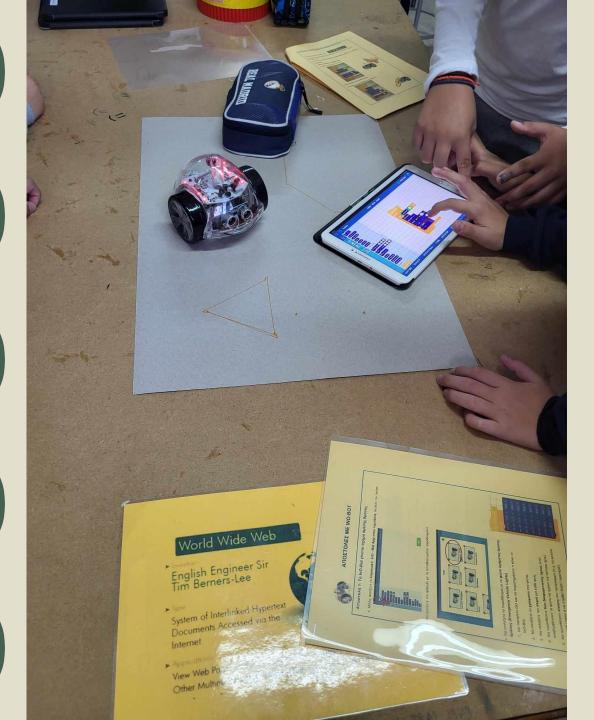


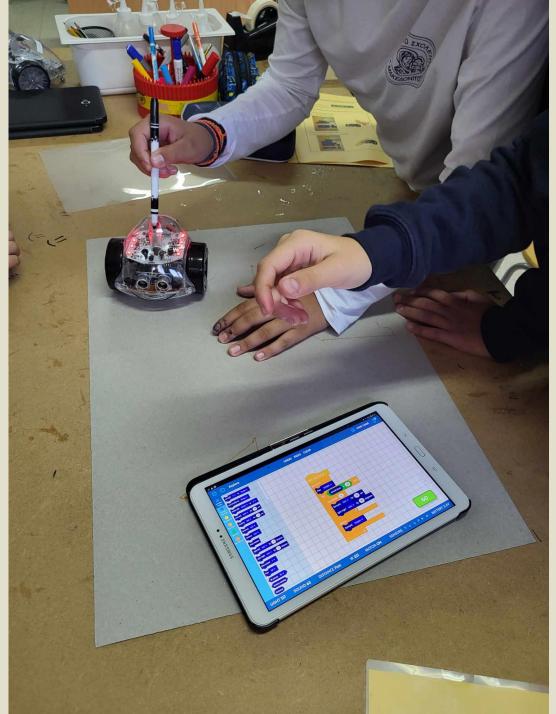
Emergency lights

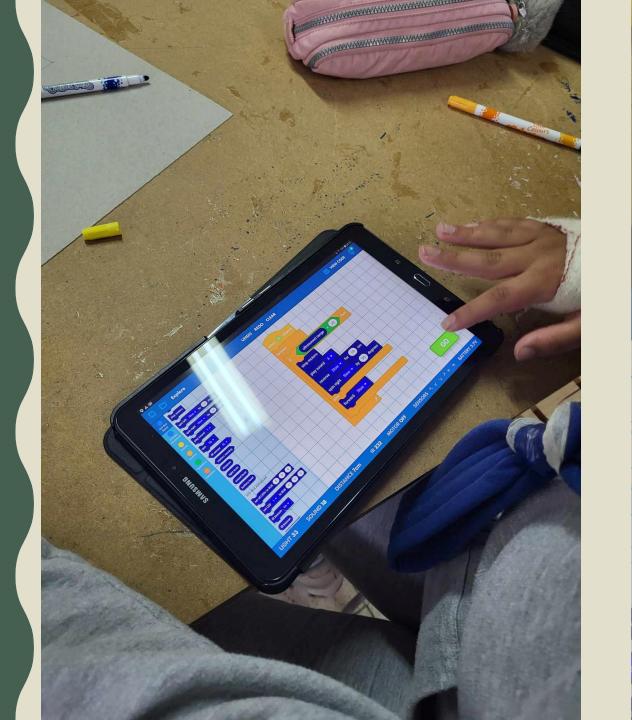


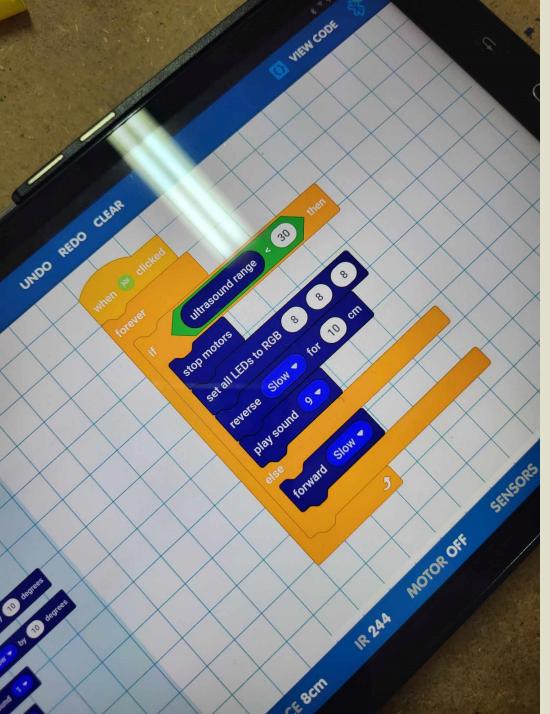




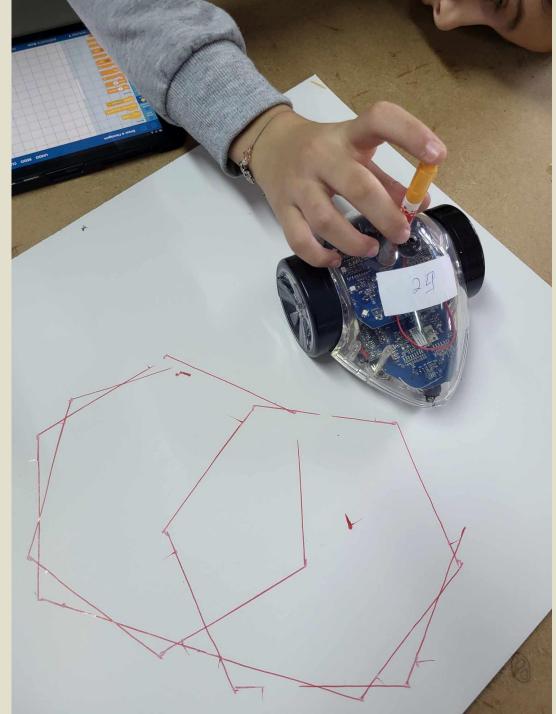




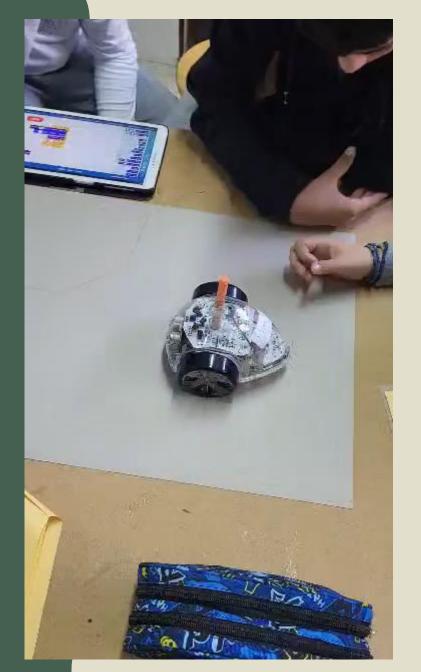




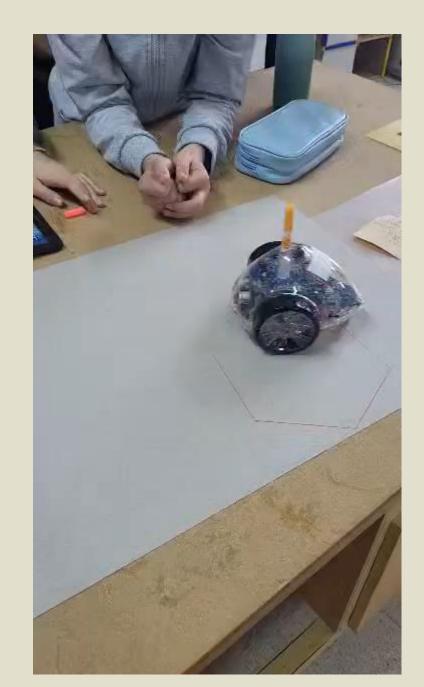




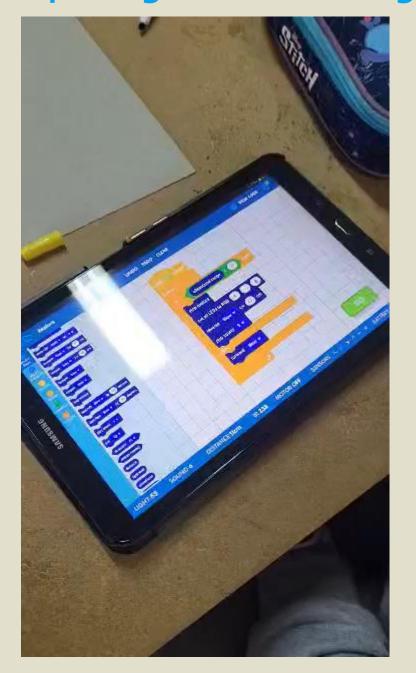
√ VIDEOS: InO-Bot is drawing shapes







✓ VIDEO: InO-Bot is exploring obstacles using sensors



5. Assessment ...

What have we learned about INO-BOT and Scratch?

