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# Xploris

## One stop shop for k-6 STEAM

# Unique STEAM solution

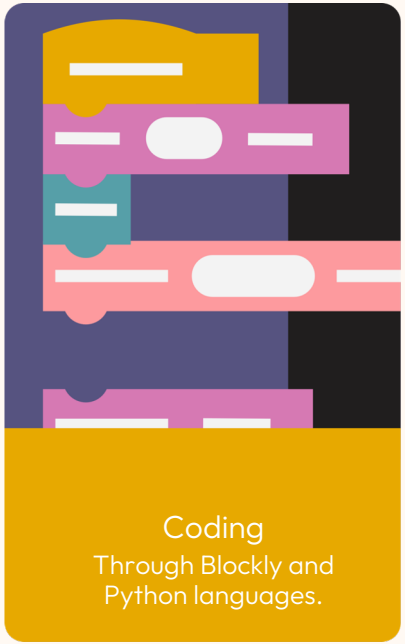
**Xplrois does it all:** An orchestra of STEAM learning in a compact, hand-held disc

## Engineering

By producing various control outputs.

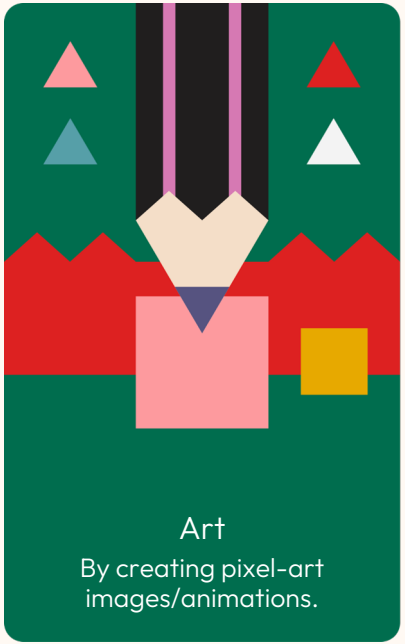
## Science & Math

Experimentation with Xploris 5 built in sensors.



## Coding

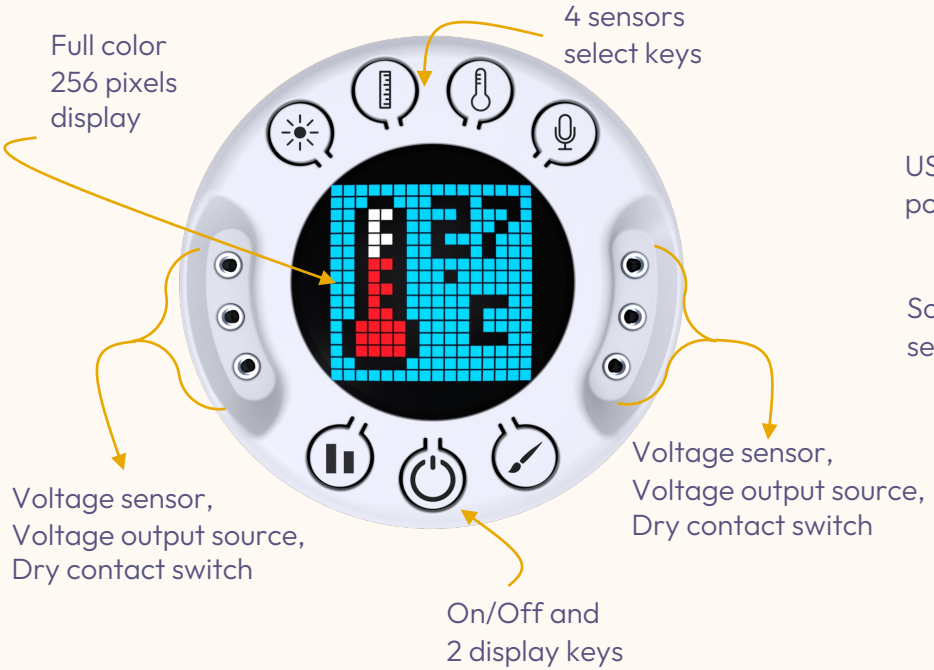
Through Blockly and Python languages.

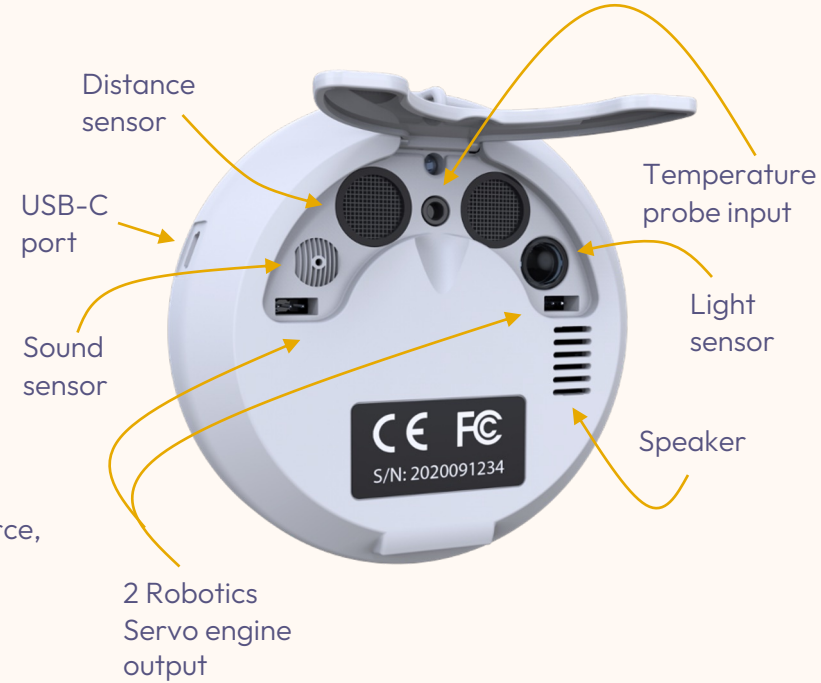


## Art

By creating pixel-art images/animations.

# Xploris – ports and controls

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# Hardware features

## Sensing & Data logging

- 5 sensors: Light, Temperature, Sound, Distance, Voltage.
- Displaying numeric sensor value and sensor bar graph.

## Art

- 16x16 RGB LED matrix.
- Using the full color pixel matrix for creating graphics and animations.

## Coding

- Internal processor directly supporting Python and Blocks.

## Control

- 2 on/off outputs.
- 2 voltage output.
- 2 servo engine outputs.

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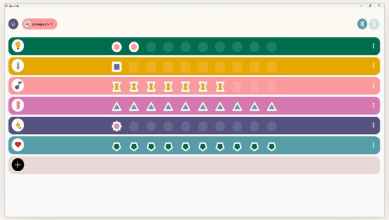
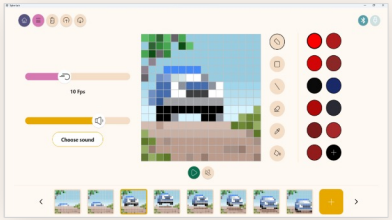
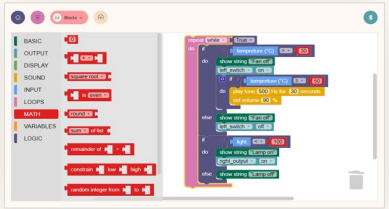
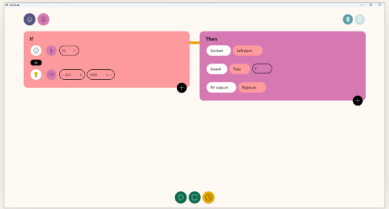
# XploriLab - full suite of STEAM apps

Science senssing, datalogging, coding, control and art.



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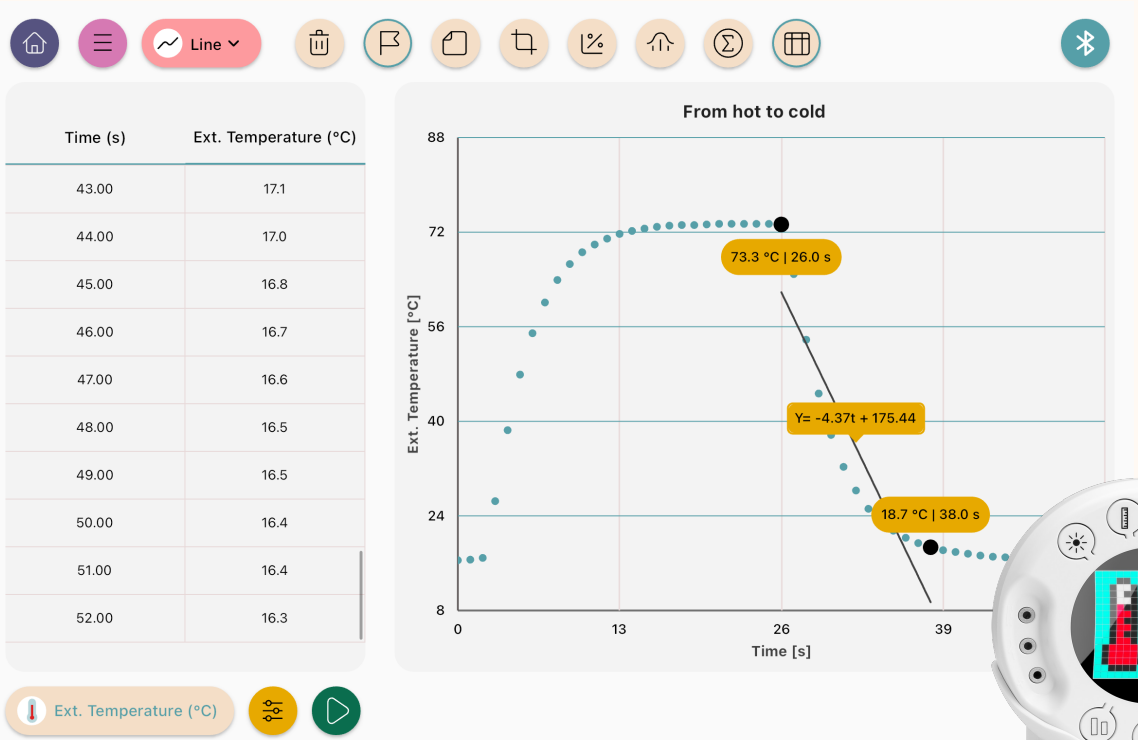
# For science & math

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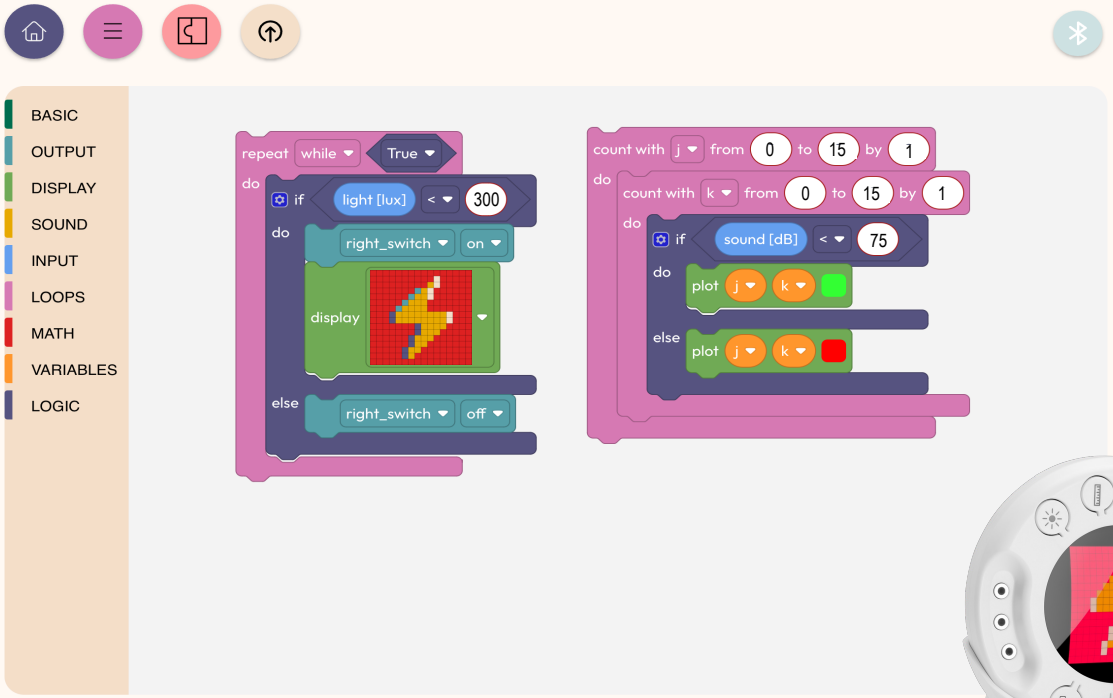
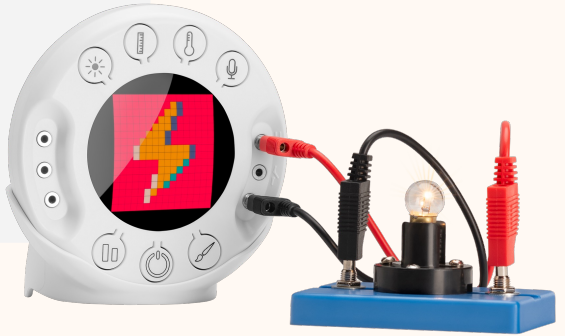
# For coding



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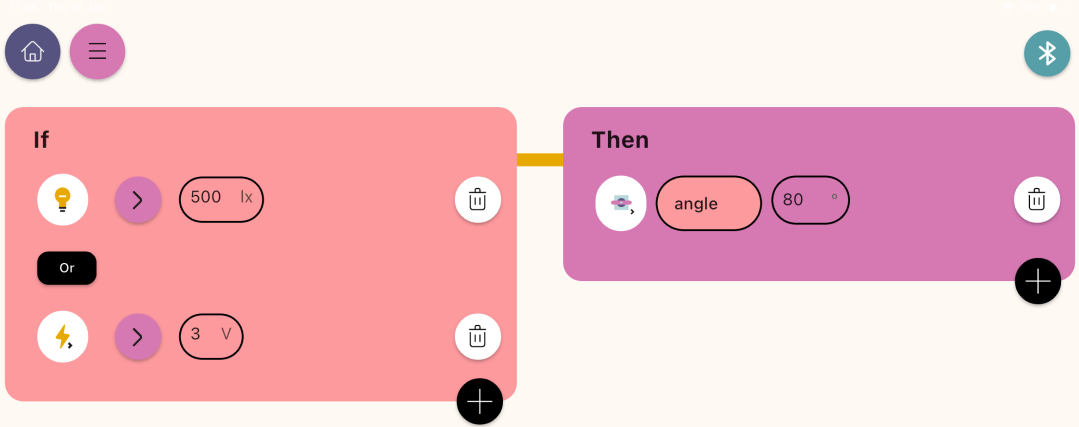
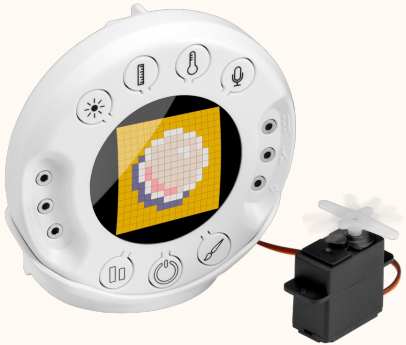
# For control & engineering



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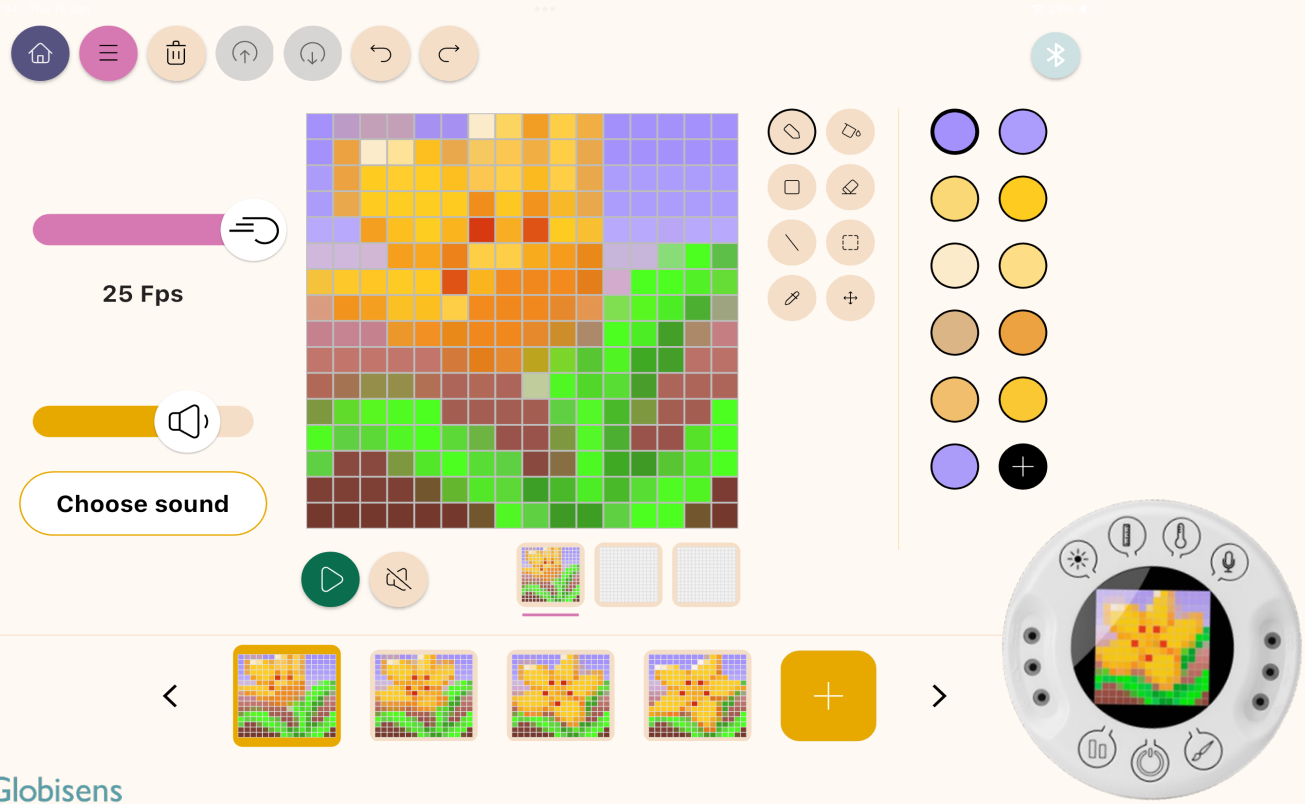
# For art

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# Pedagogic coverage

Full integration of all STEAM subjects

## Science & Math

- **Data visualization**: gauges, pictographs, bar graphs, tables, line graphs.
- **Data analysis:** markers, annotations, linear regressions, Export to EXCEL.

## Coding

- **Platforms**: Blockly, and Python editor.
- **Covering**: data types, variables, logical operators, If/else conditions, loops, Input and output operations.

## Art

- **Introduction to**: colors, drawing, pixel art and character creation.
- **Covering**: frame by frame animation, shapes and geometry, sensors and code controlled animation.

## Control

- **Method**: sensors based output levels.
- **Controlling**: animation speed, servo speed, servo angle, contact open/close, 5V output on/off.

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”

Xploris offers students an integrated end-to-end STEAM experience, from creating a pixel art flower animation to apply coding that opens the flower’s leaves when sunlight is projected on a light sensor”


# Thank you!