Globisens

Xploris

One stop shop for k-6 STEAM

Unique STEAM solution

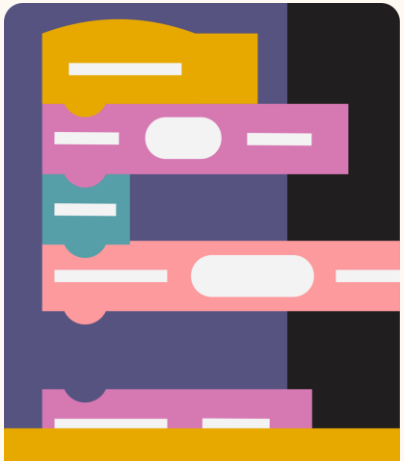
Xplrois does it all: An orchestra of STEAM learning in a compact, hand-held disc

Engineering

By producing various control outputs.

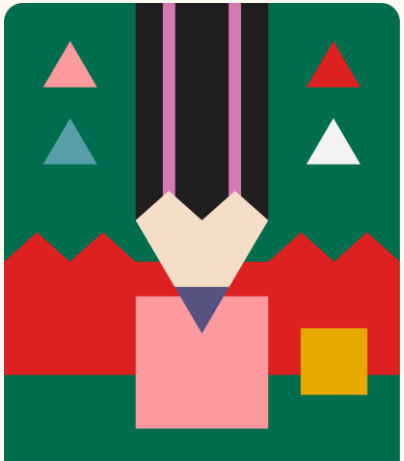
Science & Math

Experimentation with Xploris 5 built in sensors.



Coding

Through Blockly and Python languages.



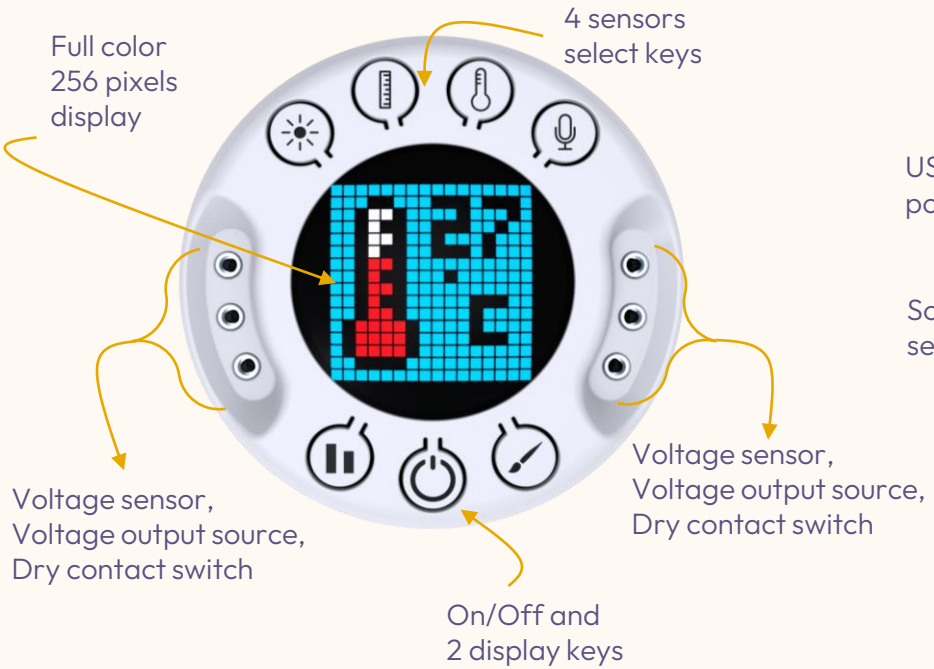
Art

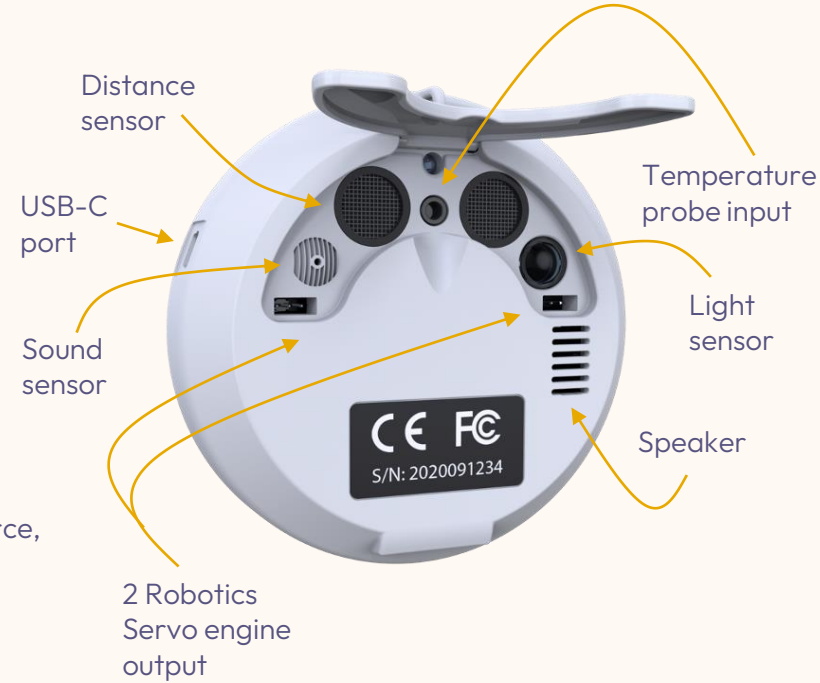
By creating pixel-art images/animations.

”

Xploris 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”

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.

Coding

- Internal processor directly supporting Python and Blocks.

Art

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

Control

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

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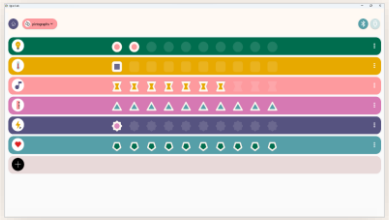
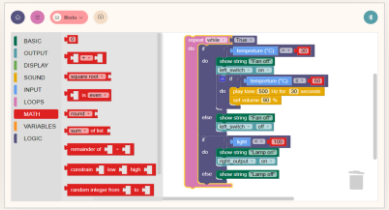
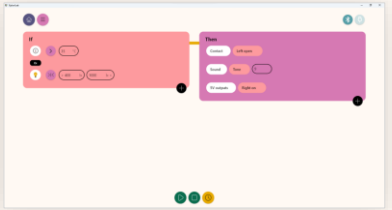
XploriLab - full suite of STEAM apps

Science senssing, datalogging, coding, control and art.







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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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Thank you!