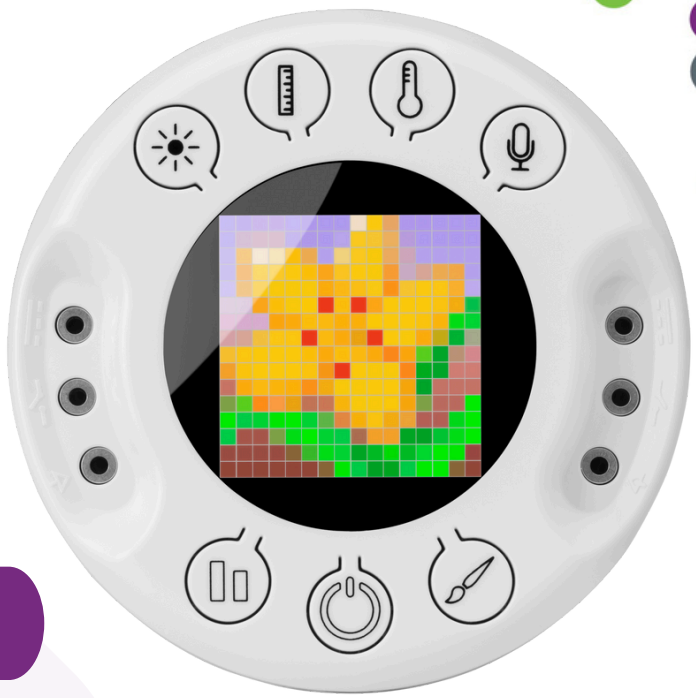
PowerUp EDU

xploris

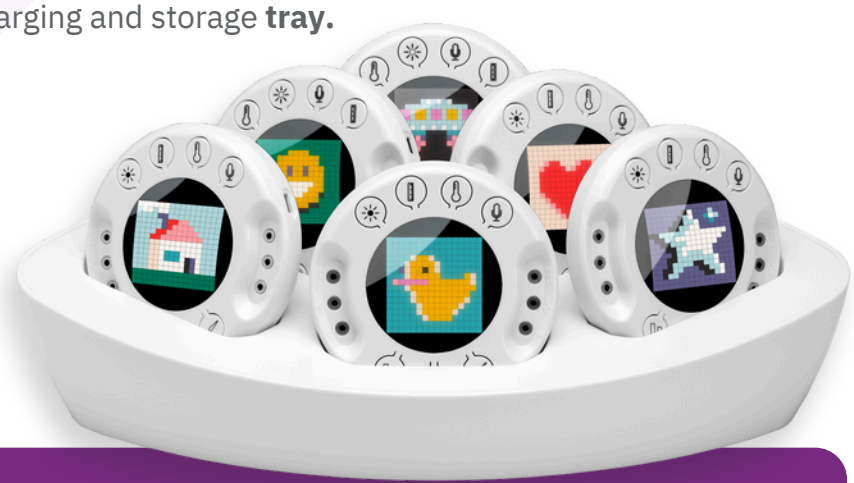
An All-in-One Integrated STEAM Solution for K-6 Learners



All NEW!

INCLUDED WITH EVERY XPLORIS PURCHASE:

- **Starter Plan license to** MyStemKits.com **K-12 STEAM curriculum** platform.
- Multi-platform XploriLab **software** (see reverse).
- **2-hour online training.**
- **6 built-in sensors:** temperature, light, sound, distance, voltage, heart rate.
- Charging and storage **tray.**



Features & Specifications

- Auto-calibrated.
- USB 2.0 and BLE 4.2 connectivity.
- 150 hour battery life (with screen off), 8 hours (screen on)
- Servo outputs allow controlling small servos.
- Image-based readings to enhance understanding.
- Remote data collection.
- 100 samples/second max speed.
- 100,000 samples memory size
- 30 animations or 1800 still image memory size.
- 16 x 16 pixel LED dot matrix.
- Rechargeable LiPO 3.7V battery.
- Windows 11, Android, iOS compatibility.

The Xploris Datalogger is part of the PowerUpEDU STEM/STEAM Practice.

CONTACT US

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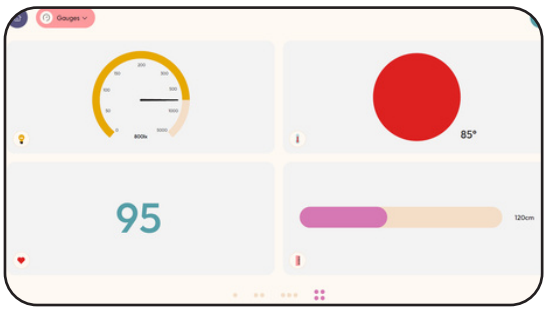
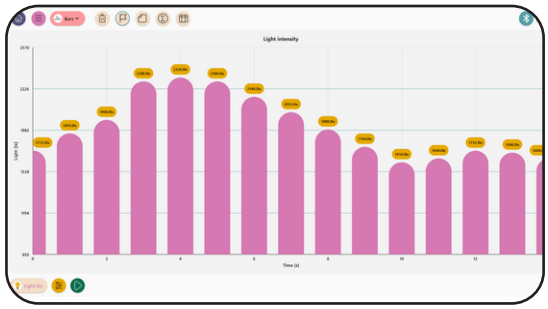
XploriLab Software Interfaces



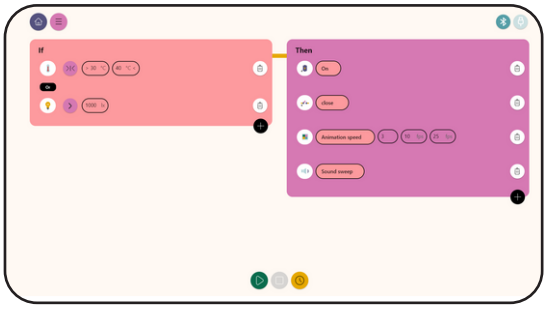
SENSING

- Select which **sensors** you would like to **view**.
- Select how you would like to view them.
- **Software updates in real time** both visually and with numerical values.
- The **Xploris screen** also updates live with visual indicators.



DATA LOGGING

- Set up **experiments** with one or more sensors.
- View the data as a **bar graph, line graph, or table**.
- Add **markers and annotations**. Zoom or crop your graph.
- Download cached experiments or run them live.

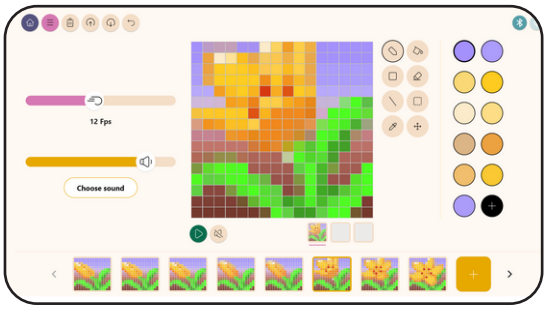


CONTROL

- Set up simple **if/then statements**.
- Control the screen, servo outputs, 5V outputs, or electronic switches to **respond to sensor readings**.
- Example: As the temperature increases, increase the speed of the ”molecule” animation.

CODE & ROBOTICS

- **Program** in Blockly or Python.
- **Control** your Xploris using loops, if/else statements, variables, and more. Determine inputs and outputs.
- **Drive** your Xploris by adding motors and a robotic base.



ART & MUSIC

- Create still **images or animations** on a 16x16 pixel grid.
- Compose **music** on a simplified piano keyboard.
- Design on 3 **layers** and duplicate frames.
- Set animation speed and sound.
- **Send images and animations** to your Xploris screen.

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