

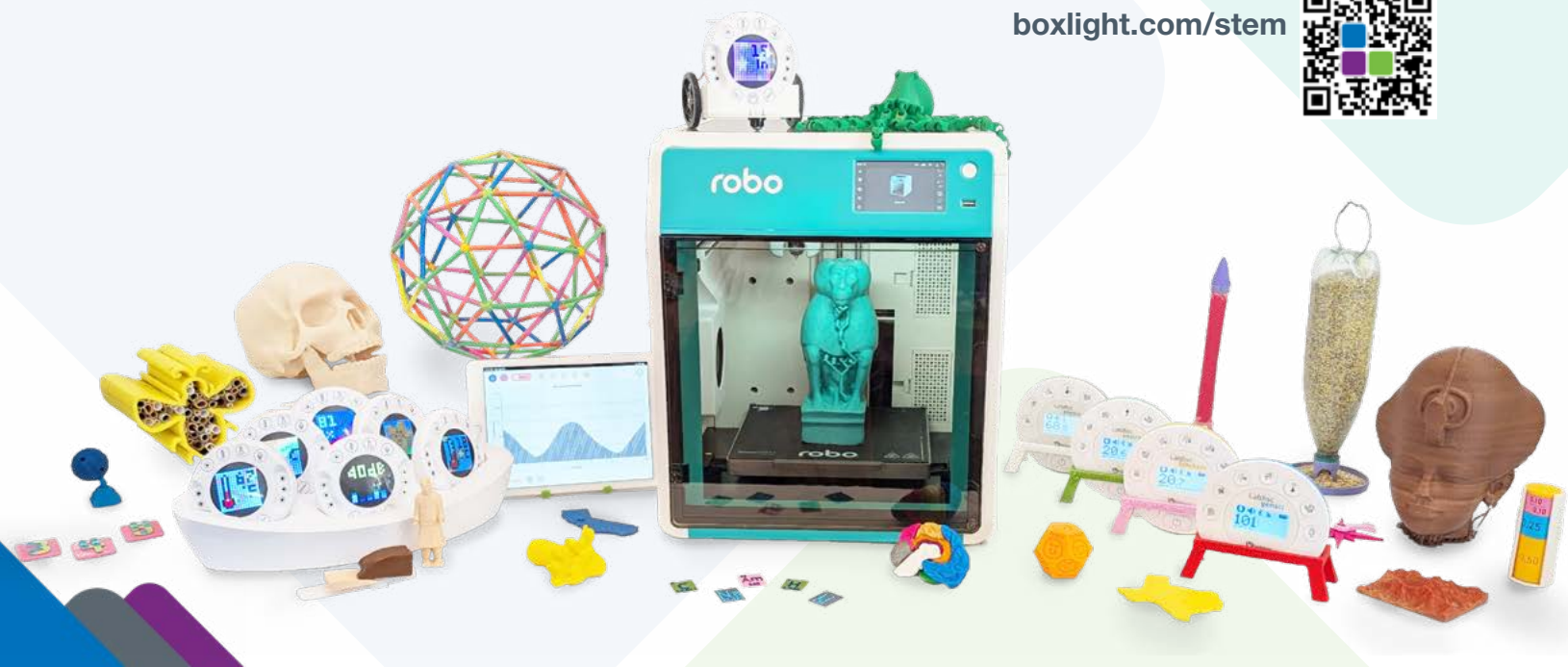


# mimio<sup>®</sup>STEM

by Boxlight<sup>®</sup>

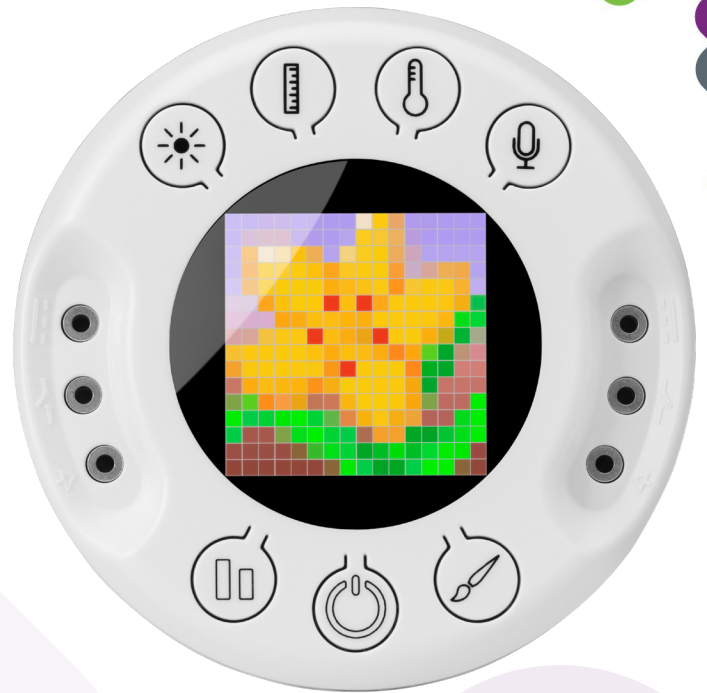
MimioSTEM solutions open the door to inquiry-based learning in all four STEM fields: science, technology, engineering, and mathematics. Consistently, simply, and quickly make STEM part of your everyday lessons with Robo 3D printers, Labdisc all-in-one Science Labs, and Xploris, a comprehensive STEAM device for K-5. Each of our MimioSTEM solutions are coupled with MyStemKits, a K-12 STEM curriculum platform based on research, that provides everything you need to use your STEM products successfully and effectively in your classrooms.

[boxlight.com/stem](https://boxlight.com/stem)



# xploris

*An All-in-One Integrated STEAM Solution for K-5 Learners*



## *INCLUDED WITH EVERY XPLORIS PURCHASE:*

- **Starter Plan license to [MyStemKits.com](https://www.MyStemKits.com) K-12 STEAM curriculum platform.**
- Multi-platform XploriLab **software** (see reverse).
- **2-hour online training.**
- **5 built-in sensors:** temperature, light, sound, distance, voltage, (heart rate sold separately).
- 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.

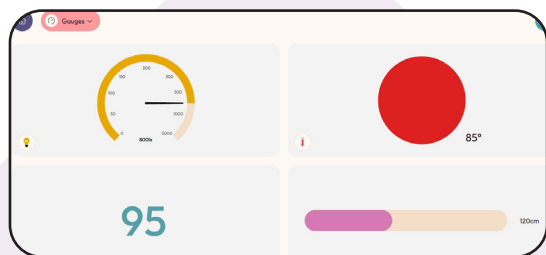
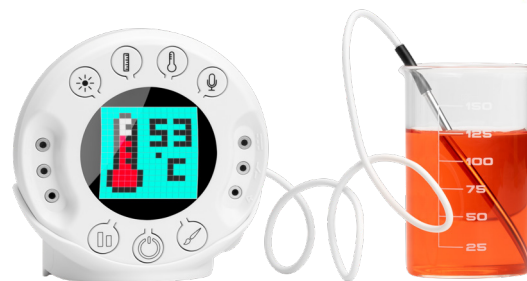
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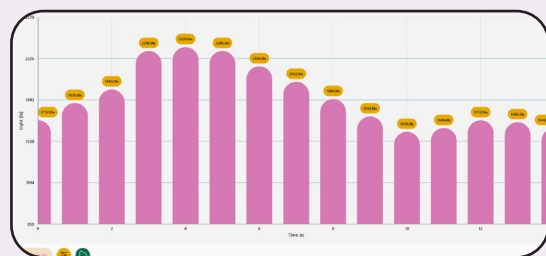
# xploris

XploriLab Software Interfaces



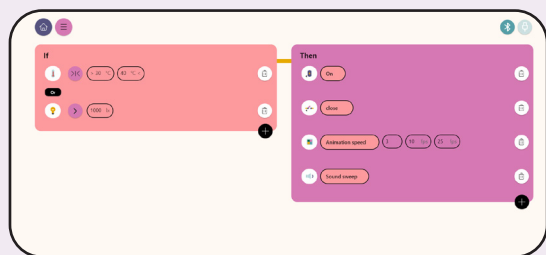
## SENSING

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



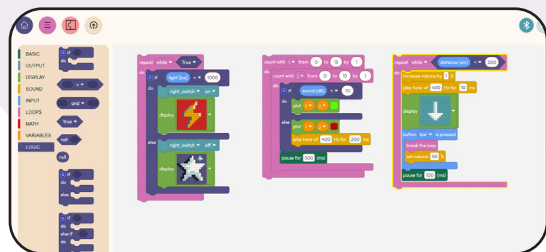
## DATA LOGGING

- 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.*



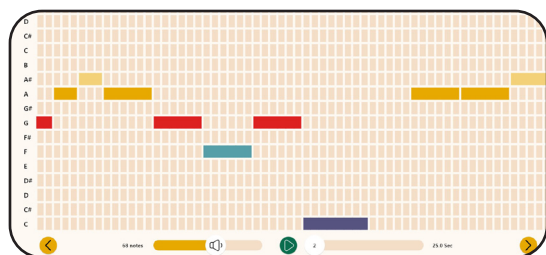
## CODING

- **Program** in Blockly or Python.
- **Control** your Xploris using loops, if/else statements, variables, and more.
- **Drive** your Xploris by adding motors and a robotic base (not included).



## ANIMATOR

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



## COMPOSER

- Compose **music** on an octave and a half sound board.
- **Send compositions** to your Xploris speaker.
- Pair with animations or compose standalone.

# Labdisc

Portable STEM lab with up to 15 built-in sensors.



## INCLUDED WITH EVERY LABDISC PURCHASE:

- Starter Plan license to [MyStemKits.com](https://www.MyStemKits.com) K-12 integrated STEM curriculum with lessons for implementation into schools
- Automatic sensor calibration for zero set-up time
- Bluetooth capability
- Multi-platform Globilab software
- 2-hour online training

## Features & Specifications

- Multi-platform Globilab software included with all purchases. Supported platforms: Standalone, PC, MAC, iOS, Android, Linux, and Chrome OS
- Remote Data Logging
- 12-bit Sampling Resolution
- Internal Memory Storage: 128,000 Samples
- Internal LIPO 3.6V Rechargeable Battery
- Over 150 Hour Battery Life
- Graphical LCD Display, 64 x 128 pixels
- USB 2.0 Connection
- Wireless Bluetooth V2.0 Communication
- Automatic Sensor Testing and Calibration
- Size: 132mm Diameter, 45mm Height
- Weight: 300 grams
- Temperature Range: -10 to 50°C
- CE & FCC Compliant
- External Power Supply: 100-240V AC/12V DC 1A



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Education  
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# Labdisc

Comparison Chart



| SENSORS                |                      |          |                          |                          |          | Available |
|------------------------|----------------------|----------|--------------------------|--------------------------|----------|-----------|
|                        | Sensor               | GenSci   | Biochem                  | Enviro                   | Physio   | Add On    |
|                        | Accelerometer        |          |                          |                          | X        | X         |
|                        | Air Pressure         | X        | X                        |                          | X        |           |
|                        | Ambient Temperature  | X        | X                        | X                        | X        |           |
|                        | Barometer            |          | X                        | X                        |          |           |
|                        | Colorimeter          |          | X                        | X                        |          |           |
|                        | Conductivity         |          | X                        |                          |          |           |
|                        | Current              | X        |                          |                          | X        | X         |
|                        | Distance             | X        |                          |                          | X        |           |
|                        | Dissolved Oxygen     |          | X* Probe Sold Separately | X* Probe Sold Separately |          |           |
|                        | External Temperature | X        | X                        | X                        | X        | X         |
|                        | GPS                  | X        | X                        | X                        |          |           |
|                        | Heart Rate           |          | X                        |                          |          | X         |
|                        | Infrared             |          |                          | X                        |          |           |
|                        | Light                | X        | X                        |                          | X        |           |
|                        | Low Voltage          |          |                          |                          | X        |           |
|                        | Microphone           | X        |                          |                          | X        |           |
|                        | pH                   | X        | X                        | X                        |          |           |
|                        | Relative Humidity    | X        | X                        | X                        |          |           |
|                        | Sound Level          | X        |                          | X                        |          |           |
|                        | Thermocouple         |          | X                        |                          |          |           |
|                        | Turbidity            |          | X                        | X                        |          |           |
|                        | Ultraviolet Light    |          |                          | X                        |          |           |
|                        | Universal Input      | X        | X                        | X                        | X        |           |
|                        | Voltage              | X        |                          |                          | X        | X         |
| UNIQUE FEATURES        |                      |          |                          |                          |          |           |
| Maximum Sampling Speed |                      | 24,000/s | 100/s                    | 10/s                     | 24,000/s |           |

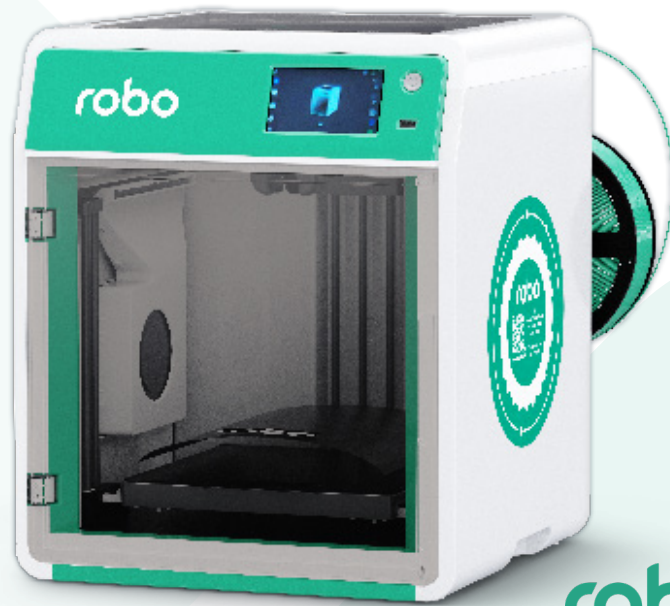
Additional add-on sensor options include the following: External CO2 Sensor, External Respiration Sensor, Magnetic Field Sensor.



# robo

## *A 3D Printer Package Built for Education:*

*Everything you need to be successful in an educational environment.*



## robo E4

*INCLUDED WITH EVERY ROBO 3D PRINTER PURCHASE:*



Curriculum &  
3D-Print Files



Online  
Training



Teacher & Student  
Certification Courses



Customer  
Support



Spare Parts  
Pack

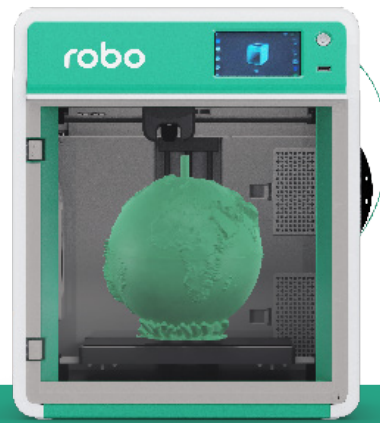
- **Starter Plan license to [MyStemKits.com](https://www.mystemkits.com) K-12 integrated 3D printable STEM curriculum** with over 480 lessons and design challenges for implementation into schools.
- Extended **2-year warranty**. (Can purchase 5-year warranty.)
- 2-hour self-paced **online training course**.
- **Teacher certification course** (unlimited seats).
- **Student certification course** (unlimited seats).
- **Spare Parts** pack.
- **(1) 500g roll of material** (filament).

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# robo

## Specs & Features



600mm/s High-Speed Printing



Automatic Calibration



Filament Runout Detection



Camera for Wireless Monitoring



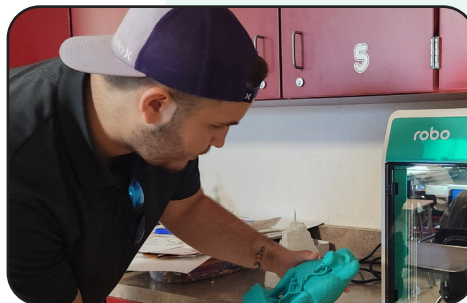
Power Loss Recovery



Full Enclosure & HEPA Filter

| Parameters                   | Robo E4   |
|------------------------------|---|
| <b>Print Size</b>            | 220 x 220 x 220 (height) mm   ~8.7 x 8.7 x 8.7 inch   |
| <b>Machine Size</b>          | 380 x 400 x 453mm without spool   ~14.9 x 15.7 x 17.8 (height) inch   |
| <b>Max Print Temperature</b> | 280°C   |
| <b>Print Bed</b>             | Heated, Flexible  |
| <b>Filament</b>              | Open source.<br>Recommended: PLA, PETG, TPU   Additional Materials: ABS, ASA, PLA-CF, PETG-CF<br>(Some materials may require custom nozzles.)   |
| <b>Free Print Software</b>   | <b>RoboCloud</b> (Online): Wi-Fi (2.4 or 5 GHz) or Ethernet<br><b>RoboPrint</b> (PC or Mac): USB thumb drive, Wi-Fi (2.4 or 5 GHz), or Ethernet |

All printing options compatible with any 3D design software capable of exporting .stl files including Tinkercad, Blender, SketchUp, 3DS Max, OnShape, Fusion 360, and more.



To learn more, visit [mimiostem.com/3D-printers](https://mimiostem.com/3D-printers) or call 1.866.972.1549.



# robo

3D Printer Bundles Built for Education:  
Safe, Smart, Simple, and School-Focused

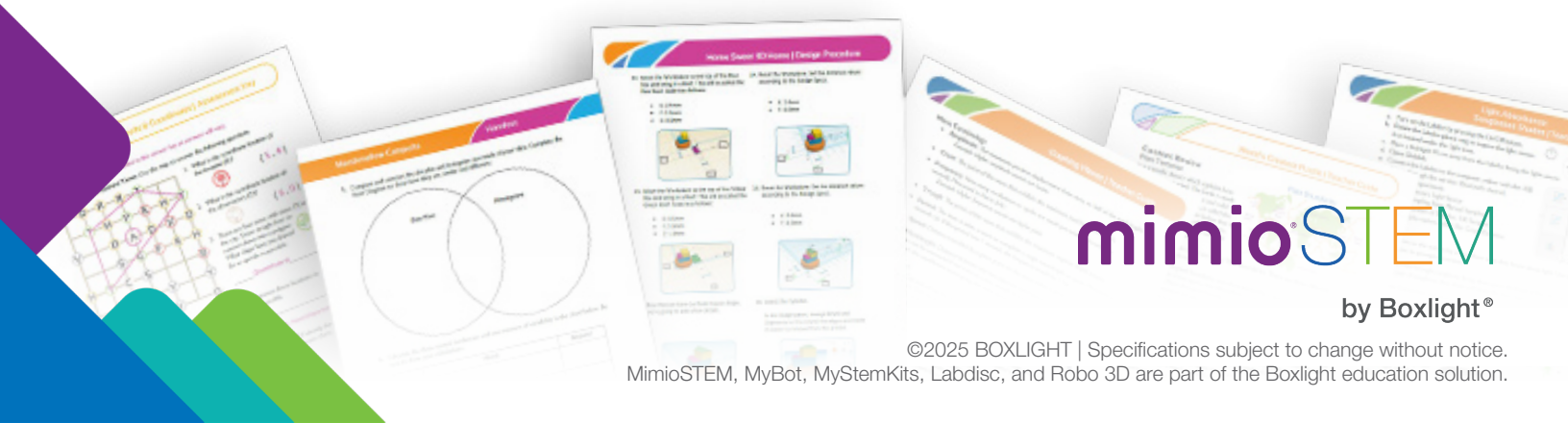


## INCLUDED WITH THE ROBO E4 SCHOOL BUNDLE:

- HIGH-SPEED **Robo E4 3D printer x 2.**
- **School Plan license to [MyStemKits.com](https://www.mystemkits.com) K-12 integrated 3D printable STEM curriculum** with over 450+ lessons and design challenges for implementation into schools.
- **MyStemKits' School Plan** allows up to 10 users unlimited access to the library of 3D models and lesson plans for 3 years, wireless printer sharing, and admin-level analytics.
- Extended **2-year warranty.**
- **2-hour Online Training** for teachers.
- **3D Printing Certification** course for teachers & students.
- **Spare Parts** pack.
- **22 x 500g spool of material** (filament).



**\$3899** School Bundle  
Educator Pricing



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MimioSTEM, MyBot, MyStemKits, Labdisc, and Robo 3D are part of the Boxlight education solution.



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3D Printer Bundles Built for Education:  
Safe, Smart, Simple, and School-Focused

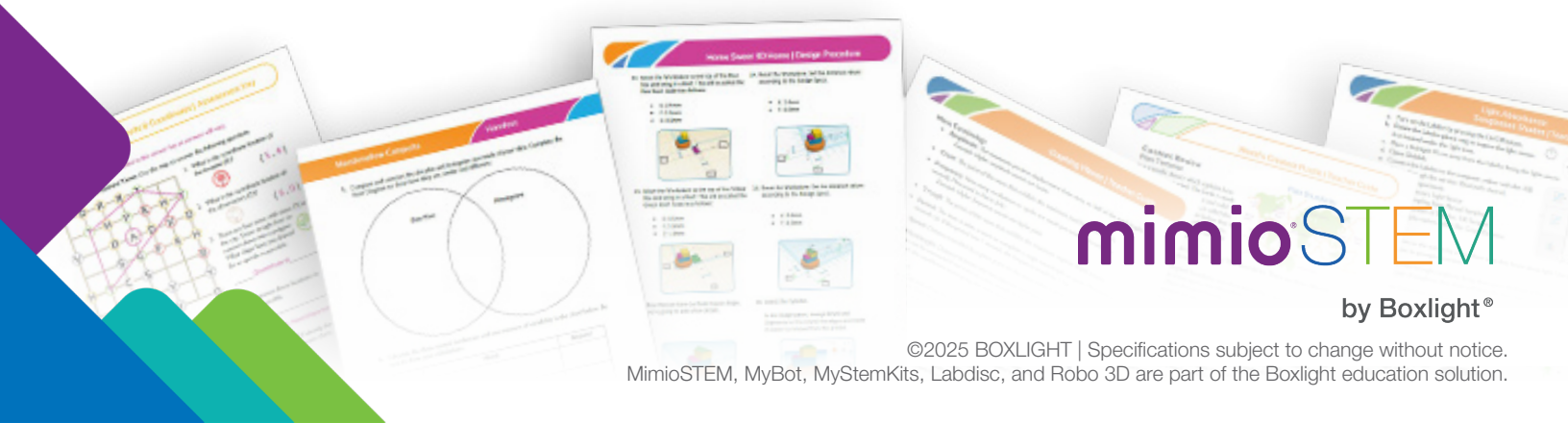


## INCLUDED WITH THE ROBO E4 **TEACHER** BUNDLE:

- HIGH-SPEED **Robo E4 3D printer** x 2.
- **Teacher Plan** license to **MyStemKits.com** K-12 integrated 3D printable **STEM curriculum** with over 450+ lessons and design challenges for implementation into schools.
- **MyStemKits' Teacher Plan** allows a single user unlimited access to the library of 3D models and lesson plans for 3 years.
- Extended **2-year warranty**.
- **2-hour Online Training** for teachers.
- **3D Printing Certification** course for teachers & students.
- **Spare Parts** pack.
- **22 x 500g spool of material** (filament).



**\$2999** *Teacher Bundle  
Educator Pricing*



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# MyStemKits.com

*Standards-Driven STEAM Curriculum,  
Virtual STEM Kits, and 3D-Print Library*



## Content Includes (where applicable):

- 3D-printable manipulatives or virtual STEM kits
- Multi-page Teacher Guides
- Student Handouts
- Design and Coding Procedures (PDF & Video)
- Student Assessments
- Teacher Answer Keys

## INCLUDED WITH EVERY MYSTEMKITS SUBSCRIPTION PURCHASE:

- **36-month** access to online library (*Starter Plans are only 12 months*).
- Choose from **over 440 lessons** and 40+ STEAM Design Challenges for your 3D printers, MyBot robots, and Labdisc sensors.
- **Virtual STEM Kits** for use in-person, hybrid, and remote learning.
- Over **250 ready-to-3D-print kits** designed for classroom use.
- Content driven by NGSS, Common Core, and State **Standards**.
- **3D-printer management** tools compatible with 75 types of printers.
- School Plans include printer sharing across accounts.
- Built-in **training videos** and resources.

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## Make STEM Learning Impactful

Select the plan that best fits your needs.

| Parameters  | Teacher Plan     | School Plan      |
|---|------------------|------------------|
| Teacher licenses  | 1                | 10               |
| Number of kits  | UNLIMITED access | UNLIMITED access |
| Ready-to-print 3D models  | ✓                | ✓                |
| Virtual STEM kit simulations  | ✓                | ✓                |
| Assembly and implementation guides  | ✓                | ✓                |
| Teacher guides<br>Student handouts<br>Student assessments<br>Answer keys<br>Programming procedures<br>Design procedures | ✓                | ✓                |
| Printer sharing   |                  | ✓                |
| Admin controls & analytics  |                  | ✓                |

### Sample Activities:



*Shade Structures*  
**Grade: K | S.T.E.A.M.**  
*Labdisc & Robo*



*Bicycle Delivery Routes*  
**Grades: 3-4 | T.M.**  
*MyBot & Robo*



*Gliders & the Pythagorean Theorem*  
**Grade: 8 | S.M. | Robo**



*Hominin Evolution*  
**Grades: 9-12 | S.**  
*Robo*

To learn more, visit [www.MyStemKits.com](http://www.MyStemKits.com) and sign up for a free trial today!

