Connect the dots between physical and digital

SAM Labs provides everything you need to deliver the most engaging STEAM learning experience to your classroom. It seamlessly connects software and hardware with lesson plans that cover a wide variety of subjects, making learning about coding accessible, experimental, interactive and fun.

SAM Labs kits are bursting with wireless electronic blocks that each have a personality of their own. From lights to motors to sliders to buzzers, every Bluetooth-enabled block can connect to the others via the app to do something different. Press a button to turn a light on! Use a light sensor to activate an alarm! With the app, students can code the behaviours of blocks in any way they can imagine, enabling them to make anything from simple reactions to complex creations in minutes.

Teaching Materials

SAM Labs helps both teachers and students discover coding in an accessible, fun and interactive way. The lesson plans and guides created for teachers, by teachers, make integrating SAM Labs into your classroom quick and easy. SAM Labs is aligned with international education standards to ensure projects and lesson plans can be used across the curriculum to benefit all teachers and all students.

SAM Blocks and Accessories

Built for the classroom, each wireless Bluetooth SAM block connects effortlessly and can be easily recharged. Each block is an input or an output, such as a motor, a light or a light sensor. Use the SAM Space app to connect the blocks together. For example, if you connect the light sensor and a motor, the motor will run faster as you shine more light on the sensor.

SAM Apps

SAM Space allows for blocks to be visualized and coded together in a simple and intuitive way. Visual, flow-based drag-and-drop coding allows students to take their physical SAM Blocks, drop them into a virtual canvas and connect them together to create projects. SAM Space can also be used by students at home even if they don't have any physical blocks.

Using the Workbench app, students programme systems, utilising their computational thinking skills to help overcome obstacles and solve problems.

Why use SAM Labs?

- A fun and interactive way to bring coding to life
- Curriculum-aligned lesson plans and projects
- An intuitive visual, flow-based coding app tailored for any classroom or ability level
- Google Workbench enables progression to block-based programming
- Easy-to-install, wireless Bluetooth SAM Blocks that are made to last
- Mac, iOS, Android, Windows and Chromebook compatible
- Teacher support and training
- Versatile technology that can be used across a variety of subjects

Partnerships

SAM Labs Kits

STEAM Course Kit - Classroom size (Classroom_Kit)

The ultimate STEAM lesson kit for the full class, comprised of a variety of teaching materials, a flow-based coding app and an abundance of wireless electronic blocks and accessories, it's everything you need to bring STEAM learning to your classroom. Use the SAM Blocks and the SAM Space app to build classroom projects and complete lesson plans.

One Classroom Kit provides the equipment to teach a full class of up to 30 students
7 bonus blocks for more versatility in projects Durable classroom-proof stackable storage box
Number of Students: 30 / Device not included.

What's In The Box?

20 x DC motor

10 x Light sensor

10 x RGB Light

20 x Wheel

10 x SAM Controller

10 x SAM Car Chassis

10 x Roller Ball

10 x LEGO Gear Attachment

20 x Small LEGO Holder

20 x Large LEGO Holder

8 x Multi Micro USB
Charging Cable

STEAM Course Kit - Team size (Team_Kit)

A STEAM lesson kit perfect for groups of students, comprised of a variety of teaching materials, a flow-based coding app and a significant number of wireless electronic blocks and accessories. Use the SAM Blocks and the SAM Space app to build classroom projects and complete lesson plans that align with your curriculum.

Number of Students: 9-10 / Device not included.

What's In The Box?

6 x DC motor

3 x Light sensor

3 x RGB Light

6 x Wheel

3 x SAM Controller

3 x SAM Car Chassis

3 x Roller Ball

3 x LEGO Gear Attachment

6 x Small LEGO Holder

6 x Large LEGO Holder

3 x Multi Micro USB Charging Cable

STEAM Course Kit - Alpha size (Alpha_Kit)

An introductory STEAM lesson kit comprised of a variety of teaching materials, a flow-based coding app and a number of wireless electronic blocks and accessories. Use the SAM Blocks and the SAM Space app to build classroom projects with your students and complete lesson plans.

Number of Students: 2-3 / Tablet not included.

What's In The Box?

2 x DC motor

1 x Light sensor

1 x RGB Light

2 x Wheel

1 x SAM Controller

1 x SAM Car Chassis

1 x Roller Ball

1 x LEGO Gear Attachment

2 x Small LEGO Holder

2 x Large LEGO Holder

1 x Multi Micro USB Charging Cable

Getting Started Guide (not shown)

Maker Kit (STEAM_Kit)

Bring a world of coding and creating to your classroom. Bursting with a variety of hardware and software, the STEAM Kit is made for the classroom and provides everything you need to unleash your students' creativity. This is the original STEAM lesson kit, comprised of a variety of teaching materials, a flow-based coding app and a wide variety of wireless electronic blocks and accessories (including exclusive blocks not found in any other kit).

Exclusive bonus blocks not found in any other SAM Labs kit

Number of Students: 4-6 / Packaging may vary. Tablet not included.

What's In The Box?

2 x Button

2 x RGB Light

1 x Proximity Sensor

1 x Heat Sensor

1 x Buzzer

1 x Tilt Sensor

1 x Light Sensor

1 x Pressure Sensor

2 x Slider

4 x DC Motor

1 x Servo Motor

4 x Wheel

2 x SAM Car Chassis

2 x Roller Ball

2 x SAM Controller

2 x LEGO Gear Attachment

4 x Large LEGO Holder

10 x Small LEGO Holder

2 x Multi Micro USB Charging Cable