Soluzioni per la strategia e principi di progettazione

STEAM and more: AI, IoT, robotica, coding, making, scienze

















another way to care





04

DFRobot for Education

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- I STEM Education
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Key Product Lines

- **I** BOSON
- I micro:Maqueen
- I Gravity
- I Mind+
- **I** UNIHIKER

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Computer Science

- I micro:Maqueen Series
- I BOSON Coding Starter Kit
- I IoT Starter Kit for micro:bit
- I MindPlus Coding Kit for Arduino

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Science

- I BOSON Science Design Kit
- I BOSON Science Kit
- I Gravity: SCI DAQ Module
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- I Environment Science Expansion Board

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Design Challenge

- I BOSON Creativity Kit
- I BOSON Inventor Kit
- I DIY Electronics

Empowering Creation for Future Innovators

About DFRobot

DFRobot was founded in 2008, among the first to embrace open source hardware. After a decade, DFRobot has expanded from open source hardware to STEM education, AloT, and other high-tech industries. Our mission is to form a community with easy access to whether hardware, software and ideas that allow makers and younger generation to achieve their goals and realize creative ideas in an effective manner.



STEM Education

Empower Creation for Future Innovators

Since 2013, DFRobot began to create STEM education kits and comprehensive learning resources including hardware, software, content solutions for students to engage with in the classroom, which allow students to benefit from creation, identifying their own challenges, solving new problems, motivating themselves to work together and share with others. We believe making and creating will get our younger generation closer to the future, and one day they will change the world with what they make.

Hardware



- Systematic product road map suitable for all ages
- Thousands of open-source electronic modules and components
- Compatible with the mainstream digitalized STEM educational platforms

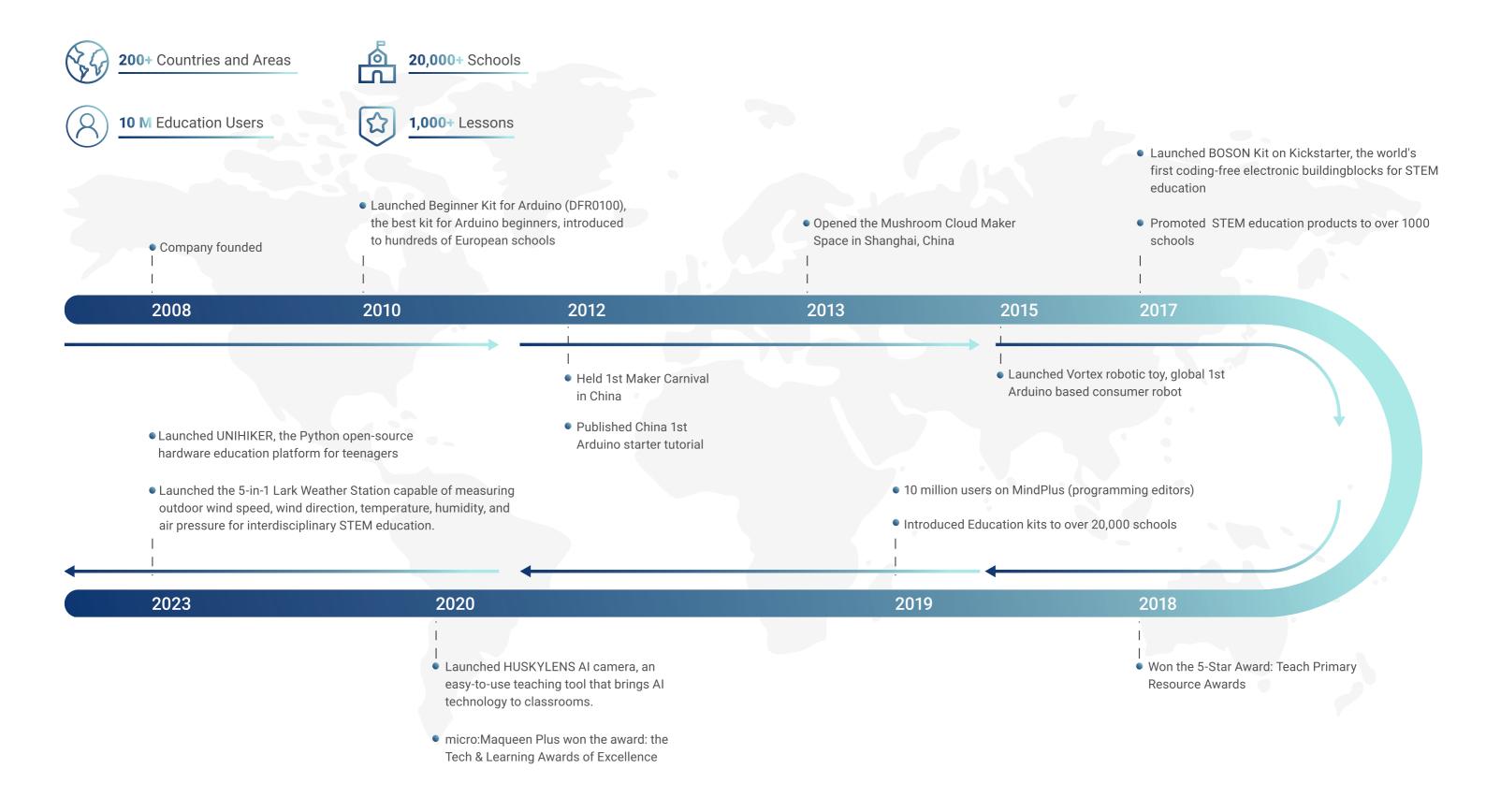
Curriculum



- Standard-aligned
- Well-designed PBL solutions, curriculum, course plan and teacher training materials
- Skill: robotics, electronics, programming, IoT (Internet of Things), AI (Artificial Intelligence)



Our Journey







Awards



5-Star Award on Teach Primary Resource Awards



Tech & Learning's Awards of Excellence



EdTech Cool Tool Awards Finalist



Maker Faire 2015 Goldsmith Sponsor, 3 editor's Choice Awards

In The Press











































Online Learning Resource





Quality resources to support the teaching and learning of STEM, get inspired with ideas, projects and tutorials for beginners.

With a mission to inspire more people to create, we build an online platform to support communities of educators and partners through providing easy & effective learning materials and projects. Selected tutorials featuring our popular products are updated on this online platform regularly.

Featured Lessons

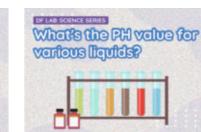














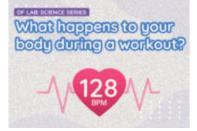








































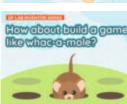




















Robotics





Little Loader Expert











Forklift Worker

Maqueen Football Cup

Relay Race

01 PRODUCT OVERVIEW

Product Portfolio

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Product Solution

Tangible Coding = Software + Hardware



Compatible with 3 major programmable electronics platforms



micro:bit is a tiny programmable computer, designed to make learning and teaching easy and fun.

As one of the first micro:bit partners, DFRobot has devoted to close collaboration with micro:bit Education Foundation to reaching the goal of getting children coding everywhere.



Arduino is an open-source electronic prototyping platform enabling users to create interactive electronic objects.



The Raspberry Pi is a series of small single-board computers developed in the United Kingdom by the Raspberry Pi Foundation to promote the teaching of basic computer science in schools.

02 KEY PRODUCT LINES

BOSON
micro:Maqueen
Gravity
Mind+
UNIHIKER



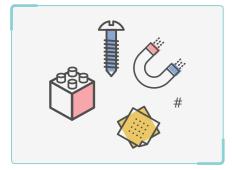






BOSON PLAY, LEARN, INVENT

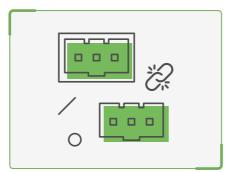
BOSON series is a set of modularized electronic building blocks designed for young inventors and STEM educators.



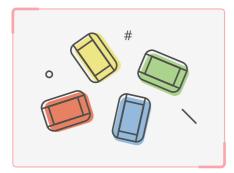
Compatible With LEGOs Magnets Screws and Velcro



Coding-Free Electronic **Building Blocks**



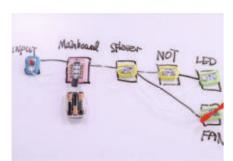
Fool-Proof Easy to Connect



Color-Coded Easy to Distinguish



50+Different Modules With Varying Functions



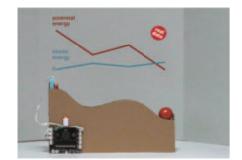
Physically program with BOSON



Explore the electrical conductivity of liquids



Test the plant-growing environment



Marble roller coaster



Walking Robot



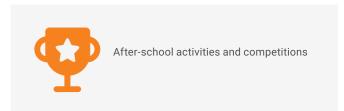
LEGO Car

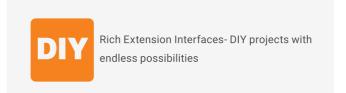


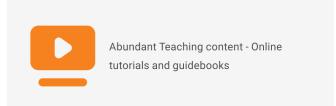
micro:Maqueen

micro:Maqueen series is a graphical programming robot that is designed for students from the age of eight upwards. Despite a mini-body, its interesting features allow students to quickly learn graphic programming in entertaining, nurturing children's interest in science and logical thinking.











Gravity series is a high quality open-source, modular, plug and play electronics toolkit for everyone to create anything easily, which allows users at any skill level to easily connect and mix to realize ideas or develop projects.

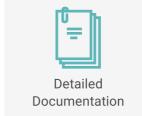
Various professional modules, powerful expansion shields and kits are available. Total over 250.















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MindPlus is a programming educational software. You can use it to start coding from graphical programming, and then to master more programming languages like C and Python. MindPlus is also a tool you can create. Give rein to your imagination, you can make all kinds of cool projects there.

Build programs by dragging and snapping coding blocks just like Scratch.

Learn programming with no prior experience.





I Based on Python 3, effectively transitioning from block-based coding to text-based coding for a complete programming learning experience.

I Create real life projects compatible with a wide range of electronic components .



Mind+ Dashboard

The Mind+ Dashboard has interactive display components that can be personalized by dragging and selecting different themes. It also supports multiple data-sources, making data presentation intuitionistic and more interactive and playful scientific projects possible.







Custom interface

Multiple data-sources

Themes color

UNIHIKER

The easiest dev computer for Python learning.

UNIHIKER is an open-source hardware that features a Linux operating system and a Python programming environment with a range of built-in Python libraries. Teachers and students can seamlessly connect it to their computers and instantly begin their Python learning journey without any configurations.

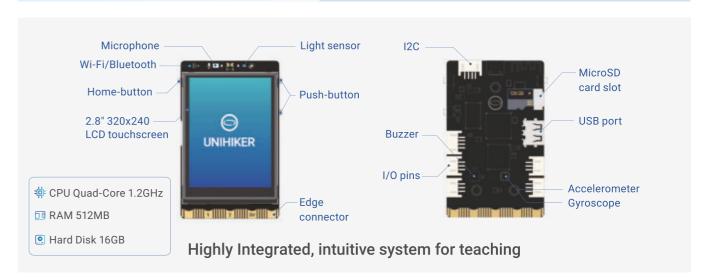




Learn more 🕠

https://www.unihiker.com/













micro:Maqueen is a series of programmable robots for students in all levels. The mini-body, abundant accessories and interesting tutorials allow children to quickly learn computer science in entertaining and gaming.

Level	Product		Tutorial	Lessons
Beginner	micro:Maqueen Lite		《Maqueen Lite Tutorial for Beginners》	11
	micro:Maqueen Lite +Mechanic		《Maqueen Lite Advanced Tutorial》	7
Intermediate	micro:Maqueen Plus		《Maqueen Plus Tutorial for Beginners》	15
	micro:Maqueen Plus +Mechanic	3	《Maqueen Plus Advanced Tutorial》	6
Advanced	micro:Maqueen Plus +Mechanic +HUSKYLENS		《Maqueen Plus & HUSKYLENS Tutorial for Beginners》	6











03 COMPUTER SCIENCE

micro:Maqueen Series **BOSON Coding Starter Kit IoT Starter Kit for micro:bit** MindPlus Coding Kit for Arduino







micro:Maqueen

STEM education smart robot for beginners

micro:bit) (Age • 8-12)

Computer Science

11 • Lessons

SKU • ROB0148-EN



Small in size, assemble easily in 4 steps



Interactive projects with light, sound,

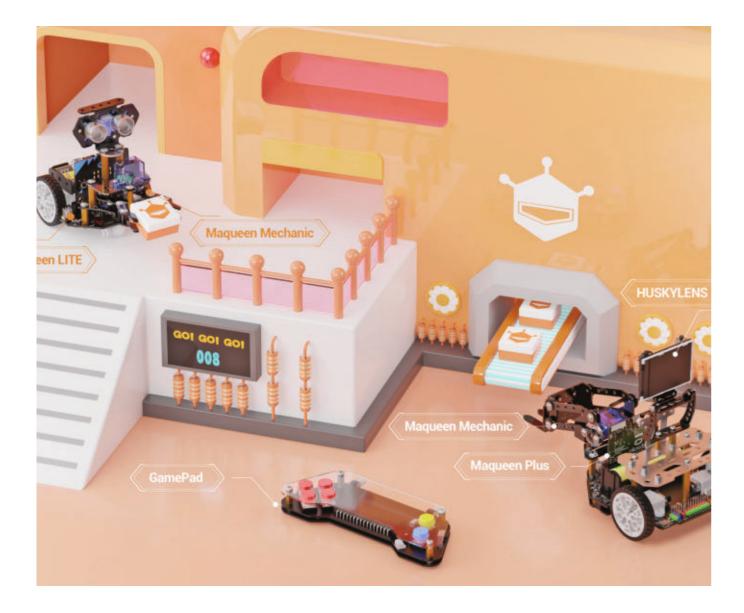


Contents: algorithm and programming, computing system



Combining with Maqueen Mechanic and GamePad to explore more possibilities

With the various functions integrated on Maqueen Lite, students can realize projects like line-tracking, ultrasonic avoidance, light-chasing, which allows them to learn robotics and programming knowledge such as line-tracking principle and ultrasonic in a fun way.







Advanced education robot

micro:bit (Age • 12-19

Computer Science

27 • Lessons

SKU • MBT0021-EN



Increased in size, power, stability, and functionality



Supporting HUSKYLENS AI vision



Contents: algorithms and programming, computing system, internet, data



Combining with Maqueen Mechanic and GamePad to explore more possibilities

An advanced version of micro:Maqueen Lite(4.0), micro:Maqueen Plus comes with a larger and more stable chassis, and more function integrated, supporting HUSKYLENS AI vision sensor. 15 teaching projects are provided for students to learn robotics as well as algorithms & programming and computing system in practice. Moreover, there are 6 structure expansion projects and 6 AI projects that enable students to study internet and data analysis when combining Maqueen Plus with Mechanic Accessories or HUSKYLENS sensor.

HUSKYLENS/HUSKYLENS PRO

SKU • SEN0305/SEN0336

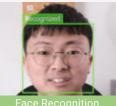
An easy-to-use powerful artificial intelligence vision sensor.

With built-in machine learning technology, it can complete AI training only with one button. The main functions the sensor included are as follows:

Study Pack of HUSKYLENS for micro: bit















micro:Maqueen Mechanic

SKU • ROB0163-EN

Mechanic Accessories turning Maqueen Lite/ Plus into various shapes, bringing infinite joy to classroom teaching!

micro:GamePad

SKU • DFR0536

Use a GamePad to remotely control Maqueen Lite or Maqueen Plus via the Radio on micro:bit. Bring more possibilites for interactive projects!

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Maqueen Lite Tutorial

Making Difficulty ★★ Programming Difficulty ★★

	Catalog	Field	Field Distribution Chart		
	Lesson 1 Preparation	Computing System			
	Lesson 2 Walking Maqueen		Maqueen Lite Robot Tutorial for Beginners Maqueen Lite Robot Advanced Tutorial		
	Lesson 3 Singer Maqueen	Algorithm & Programming			
	Lesson 4 Rhythm Maqueen				
ē	Lesson 5 Little Tagalong	Computing System	Computing Systems		
Beginner	Lesson 6 Streetcar	Algorithm & Programming	8		
Be	Lesson 7 Light Chaser	Computing System Algorithm & Programming	6		
	Lesson 8 Maqueen's Commander	Data Analysis			
	Lesson 9 Motion-controlled Robot car	Computing System	Algorithms and Programming Data and Analysis		
	Lesson 10 Fly Chess	Algorithm & Programming Data Analysis			
	Lesson 11 Gamepad+Maqueen	Network & Internet			
	Product Introduction				
	Features and Functions	Computing System			
	Installation Steps		Impacts of Networks and Computing the Internet		
	Lesson 1 Pitch Cleaner	Algorithm & Programming			
Advanced	Lesson 2 Maqueen Football Cup		Computing System		
dvar	Lesson 3 Little Loader Expert		Data and Analysis		
_	Lesson 4 Forklift Worker	Computing System Algorithm & Programming	Networks and the Internet		
	Lesson 5 Railway Patroller		Impacts of Computing		
	Lesson 6 Relay Race		Algorithms and Programming		
	Lesson 7 Sorting Manipulator	Computing System Algorithm & Programming Data Analysis			

Maqueen Plus Visual Recognition Tutorial Making Difficulty ★★ Programming Difficulty ★★

	Catalog	Field	Field Distribution Chart
	Lesson 1 Numbered Musical Notation of Colour	Computing System Algorithm & Programming	Computing System
	Lesson 2 Easy ETC (Electronic Toll Collection) System	Computing System Algorithm & Programming Data Analysis	6
Beginner	Lesson 3 AI Sorting Master		Algorithms and Data and
Begi	Lesson 4 Undercover Detective	Computing System	Programming
	Lesson 5 Pokémon	Algorithm & Programming	
	Lesson 6 Following the "Right Track"		Impacts of Networks and Computing the Internet

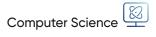
Maqueen Plus Tutorial

Making Difficult	y ★ ★ ★ Programming	Difficulty	***

	Catalog	Field	Field Distribution Chart	
	Lesson 1 Introduction to Maqueen Plus	Computing System		
	Lesson 2 Let's move, Maqueen!	Algorithm & Programming		
	Lesson 3 Walking Emoji	Algorithm & Programming		
	Lesson 4 City Defender-A Police Car	Computing System Algorithm & Programming	Maqueen Plus Robot Tutorial for Beginner Maqueen Plus Robot Advanced Tutorial	
	Lesson 5 Light Sensing Robot	Data Analysis	Maqueen Flus Robot Advanced Tutorial	
	Lesson 6 Moth Robot	Algorithm & Programming		
Beginner	Lesson 7 Little Ranging Expert		Algorithms and Programming	
Beg	Lesson 8 Car Reversing Helper			
	Lesson 9 Line-tracking Robot	Computing System Algorithm & Programming		
	Lesson 10 Tour of Crossroad		Date and Analysis System	
	Lesson 11 IR-controlled Robot			
	Lesson 12 Motion Sensing Robot	Network & Internet Algorithm & Programming		
	Lesson 13 Firefighting Robot	Computing System Data Analysis Algorithm & Programming	Network & Internet	
	Lesson 1 Relay Transport	Algorithm & Programming Computing System Network & Internet Data Analysis	Computing System	
	Lesson 2 Vehicle Sharing	Computing System Algorithm & Programming Data Analysis	Data and Analysis	
Advanced	Lesson 3 Auto-Tracking Vehicle	Network & Internet Computing System Algorithm & Programming	Impacts of Computing	
Adva	Lesson 4 Fixed-Point Transportation	Computing System	Algorithms and Programming	
	Lesson 5 Self Driving Truck	Algorithm & Programming		
	Lesson 6 Out of the Maze	Data Analysis Algorithm & Programming		

Refer to CSTA curriculum standard, the course catalog and field distribution are shown below:



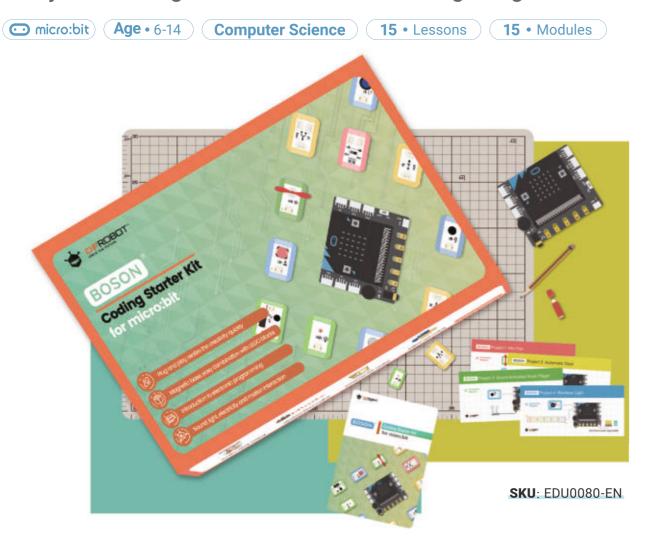






BOSON CODING STARTER KIT

Easily learn coding and electronics from the beginning.





3 Logic modules, 10 other modules with functions of sound and human detecting



Contents: Algorithm & Programming



Help students transition from coding theory study to graphical programming practice

This kit includes 15 well selected modules, by which, students can create 3 non-programming projects and 12 programming projects. They can directly use BOSON's logic modules to build up projects without coding, or programming. Meanwhile, they can learn something about algorithms & programming.



BOSON STARTER KIT FOR MICRO:BIT

Learning and building smart device with micro:bit

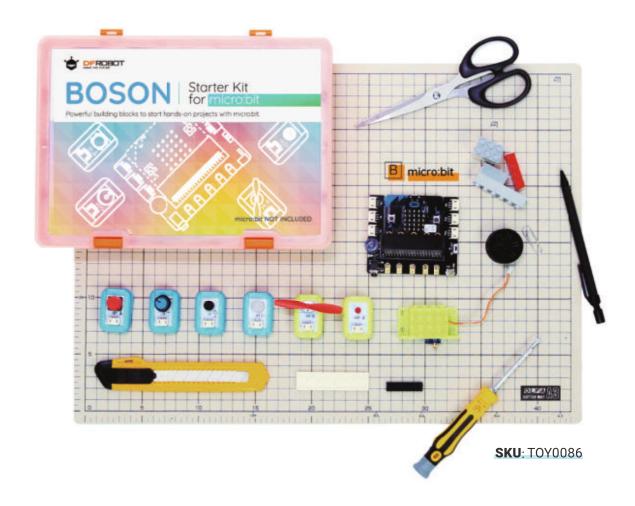
micro.pit

Age • 10-14

Computer Science

12 • Lessons

8 • Modules





Cultivating kid's programming ability



Supporting sound, light and motion interaction



Comes with 8 modules, 4 quick start project cards



12-project tutorial from beginning to advance

The BOSON starter kit for micro:bit includes 8 well selected modules, covering the most popular digital and analog sensors and actuators, supporting sound, light and motion interaction. High accessibility of freedownload tutorial and project cards enables students to learn micro:bit everywhere.

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BOSON Kit Tutorial

Making Difficulty ★ Programming Difficulty ★

Refer to CSTA curriculum standard, the course catalogs and field distributions are shown below:

		Catalog	Field	Field Distribution Chart	
		Lesson 1 Clever LED	Data Analysis		
		Lesson 2 DIY Fan	Algorithm & Programming		
		Lesson 3 Complex Control	Algorithm & Programming	Computing Systems	
		Mind+ Introduction			
		Mind+ Interface Brief	Computing System		
		Get Started with Mind+ and micro: bit		Algorithms and Data and	
		Lesson 4 The Mysterious micro: bit	Data Analysis	Programming	
	Coding Start Kit Starter Kit for micro:bit	Lesson 5 Flashing LED			
Κij		Lesson 6 Breathing Light	Algorithm & Programming		
Coding Start Kit	Ë	Lesson 7 Speed Changable Fan	3		
g St	y St t for	Lesson 8 Electronic Candle	Data Analysis	Impacts of Networks and Computing the Internet	
gin	Ä	Lesson 9 Automatic Door		Company	
ပိ	arte	Lesson 10 Music Box	Algorithm & Programming	Computing System	
	St	Lesson 11 Colorful LED Strip		Data and Analysis	
		Lesson 12 Electronic Stabilizer		Networks and the Internet	
		Lesson 13 DJ Panel	Algorithm & Programming	Impacts of Computing	
		Lesson 14 Remote Control Doorbell	Algorithm & Frogramming		
		Lesson 15 Bomb Escap		Algorithms and Programming	



BOSON AI STARTER KIT

An entry-level product for the infinite possibilities of artificial intelligence.



Age • 7-11

Computer Science

15 • Lessons

15 • Modules



Cognitive understanding of the basic principles of AI



Experience AI visual recognition and machine learning



Easy to learn neural networks concept



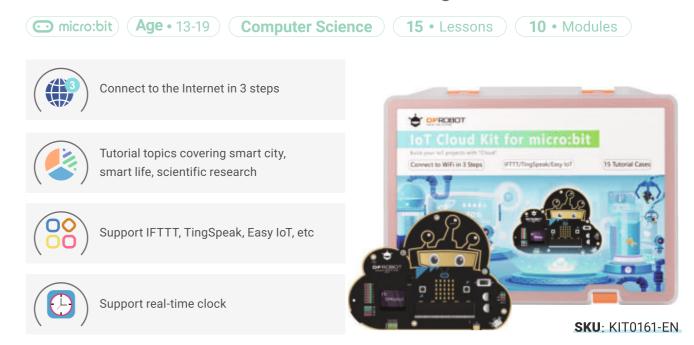
SKU: EDU0057-EN

The AI Starter Kit combines the NeurOne Module, which is specially designed for AI introductory teaching to simulate and experience machine learning principles.

Computer Science

IOT CLOUD KIT FOR MICRO:BIT

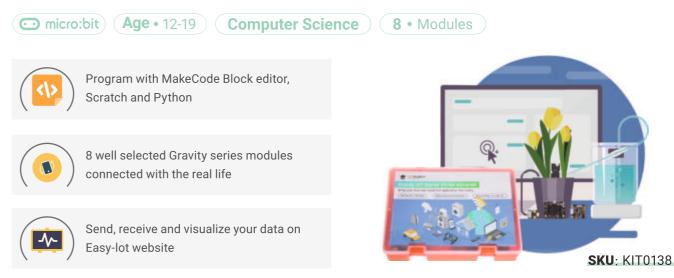
An excellent solution to IoT classroom teaching



The provided tutorials for the kit can lead students to learn what the IoT is, and get to know the applications of IoT by building up projects to realize all kinds of functions via IoT, such as clock service, text display, sound playback, light switching, data collection, and so on.

IOT STARTER KIT FOR MICRO:BIT

All-in-one bundle for micro:bit learners to experience everything about IoT



The kit comes with a micro:bit microcontroller, a Wi-Fi module and 7 sensors/actuators that are widely used in IoT applications. Support HTTP and MQTT protocol, link your social network accounts via IFTTT or even build your own web service.

MINDPLUS CODING KIT FOR ARDUINO

Get started from Zero to advanced projects, play with Bluetooth and IoT, create more fun in multiple scenarios!



Age • 9-14 Computer Science 26 • Projects 18 • Modules





18 Modules with functions involving Bluetooth, WiFi, display, etc.



26 Interesting projects to explore IoT, smart home, etc.

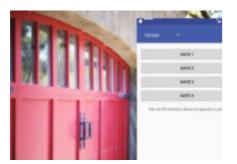


Contents: computing system, algorithms & programming, data analysis

It comes with 15 Arduino basic projects, 5 IoT projects, and 6 Bluetooth communication projects, which allow students to apply the 18 gravity modules into actual life scenarios or smart home projects. The knowledges about computing system, algorithms & programming, and data analysis will be covered during the whole process.



Remote Bluetooth Light



Bluetooth Access Controller



Smart Fan

MindPlus Coding Kit Tutorial

Making Difficulty ★★★ Programming Difficulty ★★★

Refer to CSTA curriculum standard, the course catalog and field distribution are shown below:

Catalog	Field	Field Distribution Chart
Catalog Lesson 1 Light up the Onboard LED Lesson 2 Light up the External LED Lesson 3 Control a LED with a button Lesson 4 Make a Simple Delay Lamp Lesson 5 Make a Push Button Switch Lesson 6 Breathing Light Lesson 7 3-Gear Adjustable Light	Field Algorithms & Programming	Field Distribution Chart Computing Systems
esson 8 Knob-type Adjustable Light		
esson 9 Sound-controlled Lamp esson 10 Corridor Lighting esson 11 Electric Candle	Data Analysis	Algorithms and Programming Data and Analysis
esson 12 Make a Sound-producing evice esson 13 Anti-myopia Alarm esson 14 Ultrasonic Range Finder esson 15 Intruder Detector	Algorithms &Programming	Impacts of Computing Networks and the Internet
esson 16 IoT Communication Tool	Network & Internet	Computing System
Lesson 18 Violent Transportation Monitoring	Data Analysis	Data and Analysis Networks and the Internet
Lesson 19 Automatic Clothes Hanger Lesson 20 Intelligent Baby Cradle	Algorithms & Programming	Impacts of Computing Algorithms and Programming
Lesson 21 Bluetooth Configuration	Network & Internet	
Lesson 22 Making An APP	Computing System Data Analysis	
Lesson 23 Bluetooth-controlled LED Lesson 24 Control A Servo with Your Phone Lesson 25 Special Switch - Relay	Computing System	
Lesson 26 Palm Smart Home	Algorithms & Programming	

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INTERMEDIATE KIT FOR ARDUINO

(Age • 15+) (Computer Science) (16 • Projects) (17 • Modules)





















Learning basic electronics theory, physical computing and how to use Arduino. Starting with simple LED project and then moving on to more complicated projects.

27 PCS SENSOR SET FOR ARDUINO







04 SCIENCE

BOSON Science Design Kit BOSON Science Kit Gravity: SCI DAQ Module Lark Weather Station Environment Science Expansion Board

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BOSON SCIENCE DESIGN KIT

Explore science and engineering projects in a creative way.

Age • 8-10

Science

12 • Projects (13 • Modules)



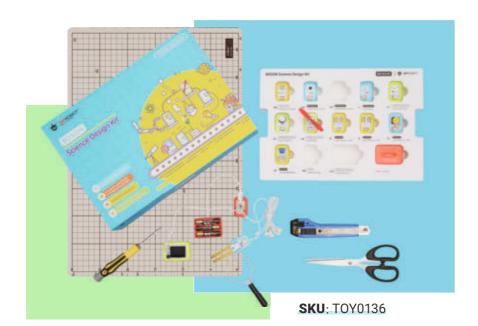
Supports sound, light and motion interaction



Contents: Engineering design and Physical Science



Coding free, simple and easyto-use



The carefully-designed 7 scientific experiments and 5 engineering projects would let students learn scientific principles in practice by applying BOSON modules into actual applications.

BOSON Science Design Kit Tutorial

Making Difficulty * Programming-free

Refer to NGSS curriculum standard, the course catalog and field distribution are shown below:

Catalog	Field	Field Distribution Chart
Lesson 1 Why Are Electrical Wires Covered in Plastic?	rical Wires Covered in Plastic?	
Lesson 2 How to Make Your Living Room Comfortable?	Physical Science Engineering Design	Physical Science
Lesson 3 What Is a Car Sunshade?		10
Lesson 4 Why Does the Moon Shine at Night?	Earth & Space Science	Ap 3
Lesson 5 Why Is It Summer After Spring, not Winter?		Life Science Engineering Design
Lesson 6 Why Do Very Few Plants Grow in the Desert?	Life ScienceEngineering Design	
Lesson 7 How Does the Water Cycle Work?	Physical Science Earth & Space Science Engineering Design	Earth & Space Science
Lesson 8 Solar Oven	Physical Science	Physical Science
Lesson 9 Fridge Door-closing Reminder	Engineering Design	Engineering DesignEarth & Space Science
Lesson 10 Automatic Plants Fill Light	Physical Science Life Science Engineering Design	₩ Life Science
Lesson 11 Automatic Watering System	Life Science Engineering Design	
Lesson 12 Anti-Theft Alarm	Physical Science Engineering Design	



Explore science in an easy and digitalized way.





8 scientific sensors for physics, chemistry and biology exploration



Contents: Life Science and Physical Science



Coding free, simple and easy-to-use



The 12 experiments designed for this kit gives kids an excellent intro to science exploration. When graphing data from the experiments with BOSON sensors, students can also learn chemistry and biology in practice.

BOSON Science Kit Tutorial

Making Difficulty * Programming-free

Catalog	Field	Field Distribution Chart
Lesson 1 What Color Absorbs Heat Best?		
Lesson 2 Which Coffee Cup is Best?		Physical Science T Use Science Engineering
Lesson 3 What's the pH Value for Various Liquids?	Physical Science Engineering Design	
Lesson 4 What Happens When Acid Meets Base?		
Lesson 5 Why Is the Water Changing Its Color?		
Lesson 6 Do Plants Grow Better with Fertilizer?		Design Design
Lesson 7 Do Plants Need Light?	Life Science	Earth & Space Science
Lesson 8 Do Plants Grow Better with More Water?	Engineering Design	
Lesson 9 What's the Best Environment for a Plant?		Physical Science Engineering Design
Lesson 10 Can Pure Water Conduct Electricity	Physical Science	Earth & Space Science
Lesson 11 Are We Able to 'see' Conductivity?	Engineering Design	Life Science
Lesson 12 What Happens to Your Body During a Workout?	Life Science Engineering Design	

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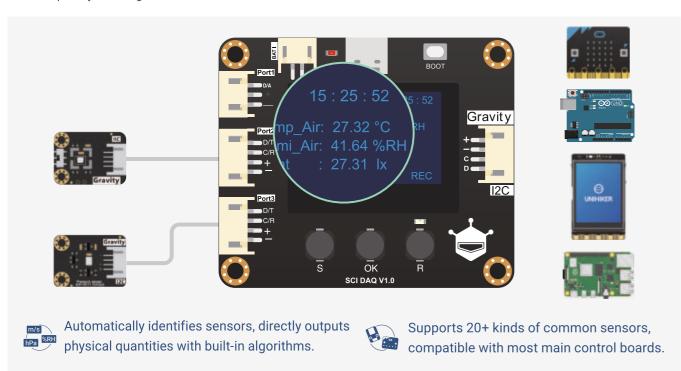




SCI DAQ MODULE

SKU: DFR0999 / EDU0170

A multi-functional data acquisition module, get sensor data in a simpler way, ideal for exploratory experiments and interdisciplinary teachings.





16MB storage for storing real-time data with accurate time tags, with the capacity of 400,000 pieces of data.



Generate CSV files, easy for data analysis.



Digitalized scientific exploration



Plant monitoring system

LARK WEATHER STATION

SKU: EDU0157

A small and portable weather station that takes you to experience real-time weather data wherever you go.



The device can collect a wide range of weather data and is compatible with various open-source hardware controllers. It also includes built-in storage for exporting data for analysis and supports extended sensors



Built-in 16MB storage space.



Small size, easy to store and more suitable for classroom teaching



Flexible Expandability. Support UART and I2C communication modes and various microcontrollers.

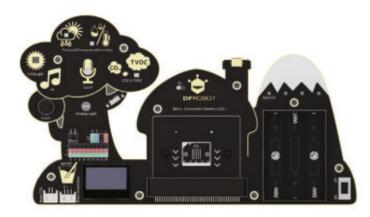




ENVIRONMENT SCIENCE EXPANSION BOARD FOR MICRO:BIT

A set of mobile scientific tools for exploring the mysteries of nature in the simplest way.









Analysis of scientific experimental data using IoT technology



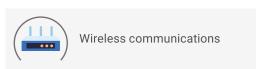
Access to Physical Science, Life Science, and Engineering Design

SKU: MBT0034

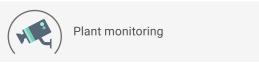
ECODUINO - AN AUTO PLANTING KIT

The EcoDuino system makes your efforts to grow plants much easier.











05 Design Challenge

BOSON Creativity Kit
BOSON Inventor Kit
DIY Electronics





BOSON CREATIVITY KIT

Inspire creativity through crafts.

Coding-free

Age • 5-8

Design Challenge

e) (**17** • Lessons

37 • Modules





Combine with Cubee cardboard sheets to quickly build up fun projects



Plug and play without a computer.



Learn together with 17 hands-on projects



A set of various sensors including temperature, light, motion, humidity, sound, etc.



Combine with Cubee cardboard sheets to quickly build up fun projects.



Plug and play without computer.



Learn together with 17 handson projects.

BOSON

BOSON INVENTOR KIT

Electronic blocks that develop logical & creative skills.

Coding-free

Age • 6-12

Design Challenge

20 • Lessons

36 • Modules





36 BOSON modules (including 9 input modules, 7 actuators, 20 function and power modules)



13 activity cards and 5 paper sheets that teach kids how to build interactive projects with LEGO blocks, wearable materials



Provides 20 online lessons, covering dexterous tools design, fun games, and creative Invention











4-CLAYING INTERACTIVE KIT

A fun-to-play kit that makes your sculptures "alive".

45 mins to assemble





Vibrant colored, toxic free lightweight



High quality color LEDs and motion

SKU: TOY0057

4-SOLDERING ZOO ANIMAL KIT

The first kit for kids to learn soldering.

Age • 6+

1 hour to assemble



Customizable animal characters and scenes



Soft light RGB LED with nice transitions



RoHs-free, smooth PCB with immersiongold, environment-friendly



4-SOLDERING LIGHT CHASER BEAM ROBOT KIT

Make your own BEAM robot in an easy way.

Age • 8+

1.5 hours to assemble





Interactive with light without programming



Easy to assemble and solder, coding-free



RoHs-free, smooth PCB with immersiongold, environment-friendly

INSECTBOT HEXA

An Arduino Based Walking Robot Kit For Kids.

Age • 11-14 2 hours to assemble Walks steadfast everywhere Can be programmed with graphical language Ardublock Can be controlled by Bluetooth



WEATHER STATION KIT WITH SOLAR PANEL

Develop kids' interest in natural science.

Age • 15-17

Science

2.5 hours to assemble





Measures the data of concerning temperature, humidity and barometric pressure



With a solar panel to provides auxiliary power supply

BEGINNER KIT FOR ARDUINO

For electronic circuit learning.

Age • 15+ 15 Projects

Teaching hours • 12-16



Includes common electronic components, e.g. resistors with different resistance values, LED and photosensitive diode



Supports mobile APP to view the learning course and download the code



15 project cards suitable for diversified and flexible use in classroom



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