


einstein Catalog 2024



A group of diverse students and two adults are outdoors in a field of tall grass. In the foreground, a girl in a light blue shirt and denim overalls uses a magnifying glass to examine a plant, while a girl in a plaid shirt looks at a tablet. Other students are visible in the background, some looking at plants and others talking. The scene is bright and natural, suggesting an outdoor learning environment.

**The classroom
of today
doesn't necessarily
have walls;
it has horizons**

Our Vision

Today's reality demonstrates that fusion of indoor and outdoor learning experiences is not just a trend, but the future of hybrid science education.

Whether inside a well-equipped science lab or out in the natural environment, the **einstein™** ecosystem is designed to serve educators and students in developing a future-ready approach and lifelong skills - curiosity, autonomous reasoning, analytical thinking, problem-solving, multiple process understanding, and teamwork - to ensure that students are not just consumers of information but skilled problem-solvers and collaborative innovators.

Fourier offers the **einstein™** and **MYO*** platforms, that promote science education and learning experiences by merging computational thinking and modeling approaches. This synergy empowers students to achieve profound insights into scientific phenomena and their underlying principles.

Fourier enables a learning journey that is as limitless as it is thorough, where every lesson can be an adventure, and every student is a discoverer.

Teach Science!

*Read more on **MYO** solution in page 16

einstein™ From Everywhere



MiLABEx

The **MiLABEx** contains 3 sub-apps:

Lab - Start an experiment

Workbook - Create and share experiments

Weather Station - Monitoring climate parameters



einstein™ Tablet+3

Android all-in-one
science tablet

+13 built-in sensors

OR

einstein™ LabMateII

Transform any screen
device into a science lab

+8 built-in sensors



einstein™ Sensors

over 60 sensors that cover all
curriculum subjects

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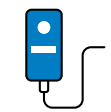
einstein™2024

Hybrid Science Education Solutions

 **Lab - Online/Offline**
capabilities


 **Workbooks-** Build and share
your own content and predefined
experiment setup


 **Weather Station -** A dashboard
of climate-related sensors that
visualizes the weather status with
chosen parameters


 **Innovative and versatile**
sensors that can be connected
in parallel for multiple experiments
(indoor or outdoor)



 **Powerful dataloggers**
for indoor & outdoor activities

 **Split screen -** 3 parallel options to
review an experiment - experiment
graph, video recording & content PDF

 **Share to compare -** Analyze
experiments results from
multiple students in one screen

 **Download & perform**
activities and experiments with
the Workbook sub-app



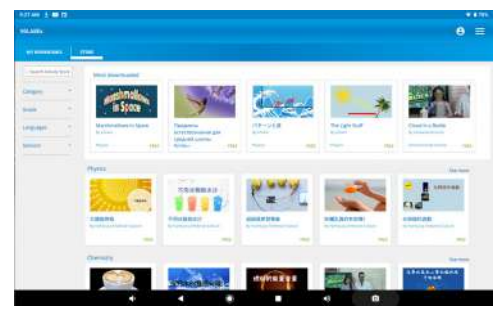
MiLABEx



The **MiLABEx** contains 3 sub-apps:



Lab - Start an experiment
Conducting science activities



Workbooks
Create and share experiments



Weather Station
Monitoring climate parameters

The Lab Sub-app - start an experiment

Perform hands on science experiments with the **MiLABEx's** Lab sub-app, The Lab is designed to streamline the user's scientific inquiry by enabling users to perform a vast range of experiments that suit

curriculum topics. Plan your experiment, define sensor settings and experiment parameters, run the experiment, analyze data collection, and share it with the teacher and colleagues.



Online/Offline capabilities



Connect several sensors in parallel for multiple experiments



High sampling rate, long experiment duration



Variety of visual display options



Multiple data presentations



User-friendly interface for teachers and students



Advanced data exploration



Prediction tool hypothesis Vs reality



Split Screen See above



Share to Compare See above

Examples of new Lab's features



Share to Compare

Share and analyze experiments results with the teacher and classmates, from everywhere.



Split Screen

3 parallel options to review an experiment. Just click your preferred icon to view the mode you need in order to maximize your experiment's practice.



Option 1

Experiment Graph & Video Recording



Option 2

Experiment Graph & Content PDF



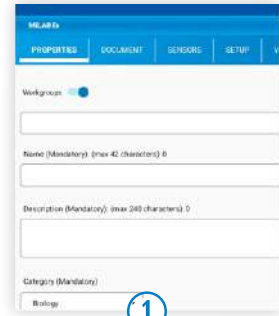
Option 3

Experiment Graph, Video Recording & Content PDF

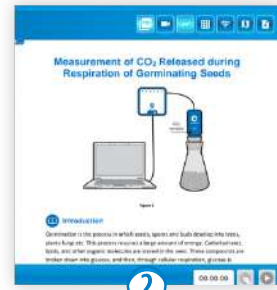
The **Workbooks** sub-app

Build your own curriculum

Build and share your content and predefined experiment setup



Create and name the activity, description and category



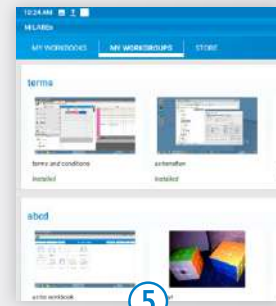
Upload content- experiment PDF with detailed information on the activity



Define experiment setup- relevant sensors, sample rate, duration, etc.



Optional- upload video for more explanations and examples

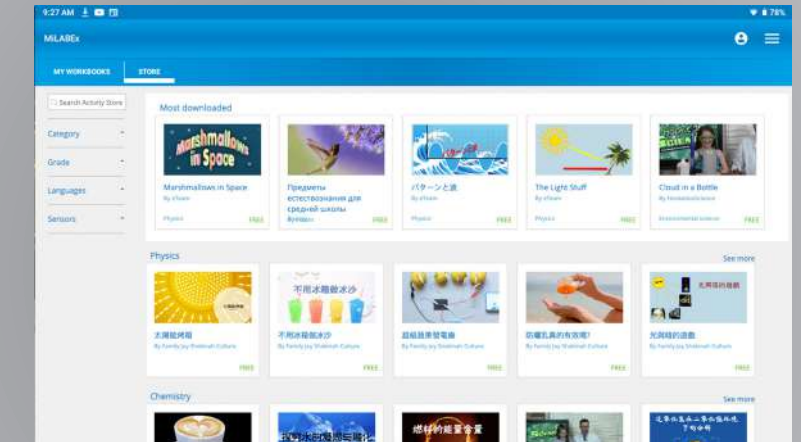


View, save and share with your colleagues and students



Download & Run experiments directly from the Workbook sub-app

Without the need for login or sign-up, users can download over 200 activities, free of charge, divided by curriculum topics and languages. Each workbook comes with a PDF/video detailing the experiment setup and explanation, as well as a predefined experiment setup.



The Weather Station sub-app

This sub-app functions as a real-time weather monitoring dashboard, displaying an array of climate-related parameters such as temperature, humidity, barometric pressure, UVI, dew point, and heat index. The Weather Station enables immediate visualization of current weather conditions, facilitating a deeper understanding of climatology whether you're in a classroom setting or exploring the great outdoors.



The Weather Station is applicable with any of the 2nd generation and up of the **einstein™** data loggers.



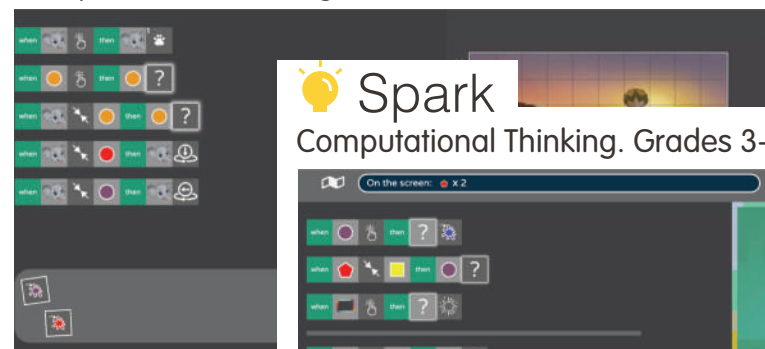


MYQ, a web based platform, empowers students to gain a profound understanding of scientific principles and core ideas, as well as foundational concepts in the realm of programming. It nurtures logical thinking skills and, more broadly, teaches students how to tackle challenges and solve problems with firm confidence across various aspects of life.

MYQ offers 4 different platforms

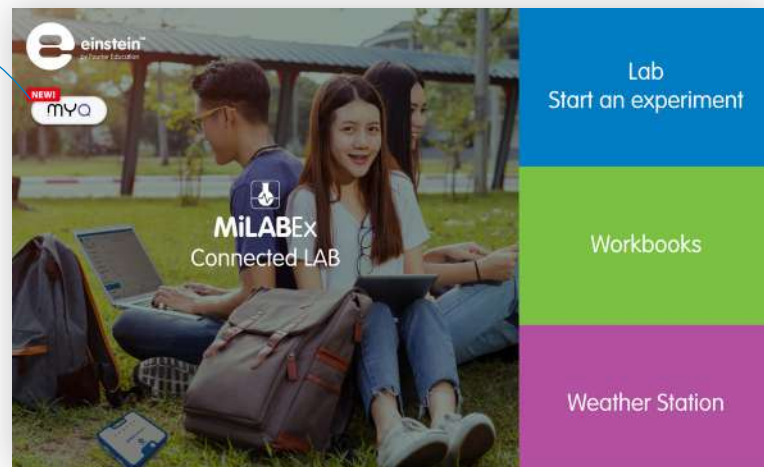
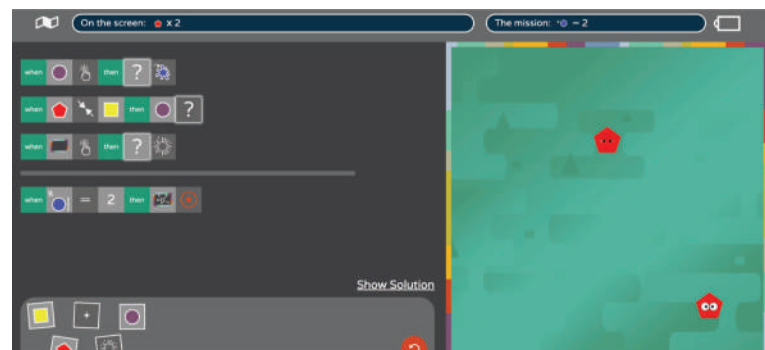
+ Pixel

Computational Thinking. Grades 1-3



Spark

Computational Thinking. Grades 3-6

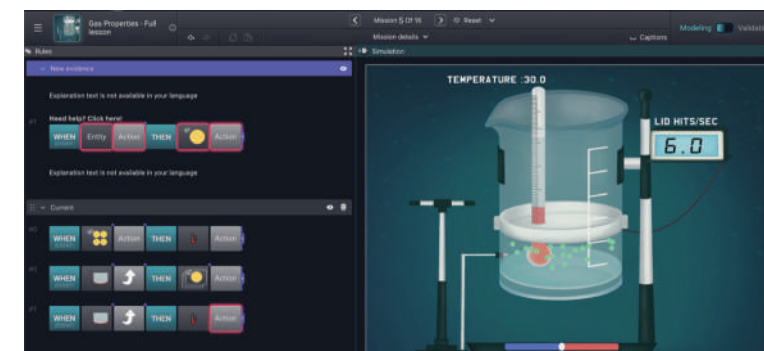


Pixel and **Spark** foster Computational Thinking in Grades 1-3 and 3-6, respectively. These applications introduce young minds to the realm of logical reasoning through immersive characters and enjoyable activities. They provide students with valuable insights into fundamental concepts like cause and effect, abstraction, conditional reasoning, and the ability to dissect complex problems into more manageable components.

Cosmos

Science. Grades 7-9

Cosmos conveys scientific principles for Grades 7-9 by exploring real-life examples and facilitates a comprehensive understanding of physical, biological, and chemical phenomena. Cosmos teaches the skills of research, model-building, hypothesis testing, learning from mistakes, and internalizing the fundamental ideas that form the basis of science.



Gamelab

Game design and development. Grades 5-9

Gamelab is a platform that empowers students in Grades 5-9 to effortlessly design digital games, craft vibrant spaces with diverse graphics and engaging animations, set rules, and plan the plot as they desire. Gamelab allows children to imagine, create, play, and share their creations with friends.



For more info visit www.myqedu.com



einstein™ Data Loggers

einstein™Tablet+3

Android all-in-one
science tablet
+13 built-in sensors

OR

einstein™LabMateII

Transform any screen device
into a science lab
+8 built-in sensors

OR

einstein™LabMate W/O Sensors

No internal sensors included

einstein™ Tablet+3

- Full Android 10.1" tablet with a built-in science lab
- Contains 13 built-in sensors, commonly used in most science curricula
- Connects up to additional 8 external sensors, from the over 60 in the **einstein™** catalog
- Designed with NGSS and Common Core in mind, it can be used both for science education and also for a broader educational environment

The **einstein™** Tablet+3 includes our free apps and software:



More info on our apps at www.einsteinworld.com



13 Built-in sensors

- | | |
|---------------|---------------------|
| UVI | Microphone |
| Light | Sound |
| Temperature | Barometric Pressure |
| Heart Rate | Heat Index |
| Humidity | Dew Point |
| Accelerometer | Video |
| GPS/Location | |

Features

- Android™ 9.0 OS
- Quad-core processor
- 10.1" Zero Gap IPS Capacitive screen
- MicroSD card slot
- Camera x 2 (front & back)
- 8 MP back camera with flash
- External display - up to 4K
- WiFi™
- Bluetooth4™
- Long-lasting battery
- over the air updates

Compatible with over

60 **einstein™** sensors

Collects data from up to **20** sensors simultaneously

einstein™ LabMate™ II

The ideal solution for schools already equipped with tablets or computers

- Features 8 built-in sensors commonly used in most science curriculum
- Connects to up to 8 external sensors simultaneously
- Pairs with any tablet, computer, or smart phone via BLE or micro-USB port
- Internal memory of up to 750k samples
- Keeps collecting and saving data even when it's disconnected from the screen device
- Easier and faster Bluetooth connection
- Conduct offline experiments from everywhere and export the data to any of your devices

Use the **einstein™ LabMate™ II** with any of our free apps and software to enjoy the full platform:



More info on our apps at www.einsteinworld.com



einstein™ LabMate II

8 Built-in sensors



Heart Rate



Temperature



Humidity



Barometer



UVI



Light



Heat Index



Dew Point

Features



High Sample rate



Connect up to 8 additional (external) Sensors



Offline mode experiments



Indoor and outdoor experiments



Auto Sensors recognition



Internal memory up to 750K samples



Long lasting Battery



USB Connection



Long wireless range Bluetooth (BLE)

Compatible with over

60 **einstein™** sensors

Collects data from up to

16 sensors simultaneously

einstein™ LabMate W/O Sensors

No internal sensors included



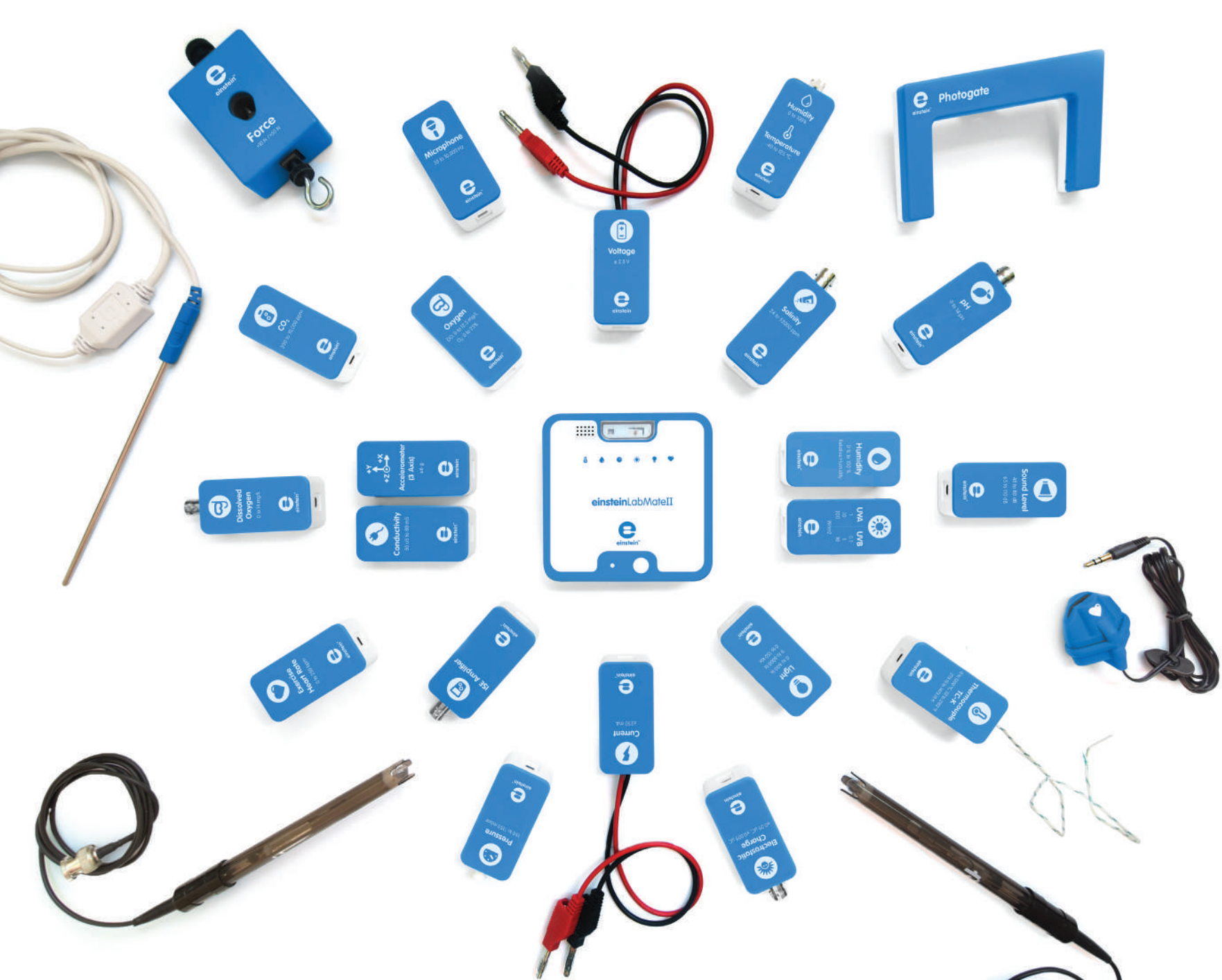
Compatible with over

60 **einstein™** sensors

Collects data from up to

8 External sensors simultaneously

Perform offline experiments from everywhere and export the data to any of your devices



einstein™ Sensors

over 60 sensors for accurate data-collection and inquiry-based experiments

Fourier's Recommended **einstein™** Bundles per subject learned

- Primary School
- Middle School
- High School and University

Each bundle comes with **einstein™Tablet+3** or **einstein™LabMateII** at your choice, with all it's internal sensors, as well as with the **MiLABEx** software, free of charge, with its 3 sub-apps - The Lab, WorkBooks and Weather Station



einstein™Tablet+3
Includes **13** Built-in sensors (See page 20)

OR



einstein™LabMateII
Includes **8** Built-in sensors (See page 22)

OR



einstein™LabMate W/O Sensors
(See page 23)

Bundle	Temperature Sensor (-40 to 140°C)	Humidity Sensor	Light Sensor	CO2 Sensor	Conductivity Sensor	Colorimeter Sensor	pH Sensor	Pressure Sensor (20-400 kPa)	Dissolved Oxygen Sensor	Geiger Muller Sensor	Ethanol Sensor	Turbidity Sensor	PAR Sensor
Biology Bundle	●●●	●●●	●●●	●●	●●	●●	●●	●●	●●	●	●	●	●
Physics Bundle	●●●	●●●	●●●	●●●	●●	●●	●●	●●	●	●	●	●	●
Chemistry Bundle	●●●	●●●	●●●	●●	●●	●●	●●	●	●	●	●	●	●
Environmental	●●●	●●●	●●	●●	●●	●●	●●	●●	●●	●	●	●	●
Human Physiology Bundle	●●●	●●●	●●●	●●	●●	●●	●●	●●	●	●	●	●	●

*The sensor is not applicable with the LabMate W/O sensors



einstein™ Environmental & Renewable Energy Bundles

Dedicated bundles for students that enable focusing on world **enviromental and climate challenges**. Promote curiosity, enable creative thinking, boost wonder and questioning, and take action in collaboration and communication.



einstein™ Tablet+3
Includes 13 Built-in sensors

OR



einstein™ LabMate II
Includes 8 Built-in sensors



einstein™ LabMate
W/O Sensors

+

Climate Monitoring	Temperature Sensor	Humidity Sensor	Light Sensor	UVI Sensor	Barometric Pressure	Dew Point	Heat Index	Anemometer Sensor	Rain Collector					
Water Quality	pH Sensor	Conductivity/salinity Sensor	Temperature Sensor	Dissolved Oxygen Sensor	Turbidity Sensor	Dissolved CO ₂ sensor								
Soil quality	Soil Moisture Sensor	Turbidity Sensor	Temperature Sensor	pH Sensor	Ammonium Sensor	Bromide Sensor	Calcium Sensor	Chloride Sensor	Fluoride Sensor	Lead Sensor	Nitrate Sensor	Potassium Sensor	Sodium Sensor	*PM Sensor
Air Quality	CO ₂ Sensor	Oxygen Sensor	*PM Sensor	Temperature Sensor	Humidity Sensor									
Solar Power	Voltage Sensor	Current Sensor	Solar cell		Terra Nova Solar Panel component holder		* The sensor is not applicable with the LabMate W/O sensors							



Accelerometer
An **einstein™ Tablet+3**
built-in sensor



Range: ±2g

In the lab, use these sensors to measure the acceleration of a moving cart, pendulum, or falling body or go outdoors to study acceleration of vehicles, amusement park rides, bungee jumpers, and other moving objects.



Accelerometer



Range: ±6g (±49 m/s²) along 3 axes

ENACL138



Ammonium Sensor with Electrode *



Concentration Range:
5 μM to 1M or 0.1 ppm to 14,000 ppm

Easily measure the ammonium ion (NH₄⁺) level of a solution. Use it to study water quality, determine the ammonium level in foodstuffs and more.

*Electrode also sold separately

ENAMN020A



Anemometer



Wind Speed Range:
4 km/h to 280 km/h; 2.5 mph to 174 mph

Wind Direction Range:
0° to 360°

This 2-in-1 sensor measures wind speed and direction at different daily intervals or over a longer period.

ENANM012A



Blood Pressure Sensor



Range: 0 to 375 mmHg

Measure blood pressure before and after exercise; investigate how blood pressure changes during the day or after physical activity.

ENBLD098



Calcium Sensor with Electrode *



Concentration Range:
0.5 μM to 1M or 0.02 ppm to 40,000 ppm

Measure the level of calcium in any solution in activities such as determining the hardness of water.

* Electrode also sold separately

ENCAL-A019A



Bromide Sensor with Electrode *



Concentration Range:
0.5 μM to 1 M or 0.4 to 79,900 ppm

Easily measures the amount of bromide in a solution. Use it to study bromide levels in soil and water.

* Electrode also sold separately

ENBRO048



Chloride Sensor with Electrode *



Concentration Range:
5 μM to 1M or 1.8 ppm to 35,500 ppm

Study levels of chloride in fertilizers or conduct water quality studies with this sensor.

* Electrode also sold separately

ENCHL-A018A





Range: 350 to 10,000 ppm

This sensor can be used to measure a wide variety of CO₂ concentrations during photosynthesis and chemical reactions in biology and chemistry labs.

ENCO2B040A



Range: 350 to 100,000 ppm

This sensor can be used to measure a wide variety of CO₂ concentrations during photosynthesis and chemical reactions in biology and chemistry labs.

ENCO2B040A-N



Wavelength:
Blue (480 nm) | Green (500 nm) | Red (650 nm)

Designed to determine the concentration of a solution by measuring its color intensity, students can use this sensor to study the effect of light on chlorophyll levels in plants, the Beer-Lambert Law and more.

* Sensor design may change

ENCOL-A185



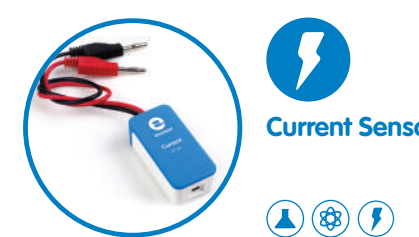
Conductivity range: 0.05 - 80 mS

Temperature range: 0-80°C

Use this sensor to monitor changes in conductivity when dissolving salts in water, monitoring bodies of water for pollution or water salinity testing.

* Electrode also sold separately

ENCNT435A



Range: ±2.5 A

These broad differential sensors are capable of measuring both direct and alternating current.

ENCRN006



Range: ±250 mA

ENCRN005



Range: 0.2 to 10 m

Measure the distance of static and moving objects both near and far. Students can use this versatile sensor to investigate dynamic cart motion on a track, measure free fall acceleration and more.

ENDST020



Range: 0 to infinity drops

Accurately record the volume of titrant added with this optical sensor.

* Sensor design may change

ENDRP-AD100



Range: °C or °F

The temperature at which a vapor (such as water) begins to condensate. Since water vapor is also affected by the humidity of the air, the temperature and humidity sensors are used to measure dew point.



Range: 0 to 3 V

An electrocardiogram – abbreviated as EKG or ECG – is a test that measures the electrical activity of the heartbeat. With each beat, an electrical impulse (or wave) travels through the heart. This wave causes the muscle to squeeze and pump blood through the body.

ENEKG189



Range: $\pm 0.25 \mu\text{C}$ | $\pm 0.025 \mu\text{C}$

This dual range, sensor can be used in activities like measuring the charge produced by friction, measuring charge by induction, investigating conductive and insulating materials and exploring the relationship between the charge and the voltage drop across a parallel plate capacitor.

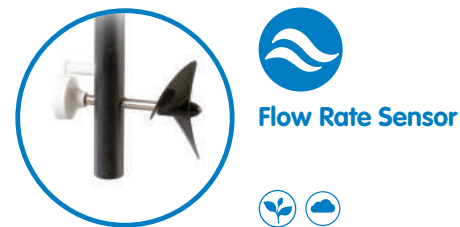
ENCRG261



Range: 0-4%

Easily measures the amount of ethanol in a solution. Use it to study ethanol as a renewable source of energy and the process of fermentation.

ENETH105



Range: 0 to 4.0 m/s

Measure the velocity of water flowing in a river, stream or canal.

ENFLO-A254A



A standard Global Positioning System, helps students add the parameter of location to a variety of experiments.



Range: 0 to 250 bpm

Use this sensor to compare or monitor heart rates before, during and after brief vigorous activity and monitor the time it takes the heart rate to return to normal.

ENEXRT298



Concentration Range: $1 \mu\text{M}$ to saturation or 0.02 ppm to saturation

Easily measures the amount of fluoride in a solution. Use it in agriculture studies and chemistry experiments

* Electrode also sold separately

ENFLU049



Range: $\pm 10 \text{ N}$ | $\pm 50 \text{ N}$

Study friction, simple harmonic motion, impact in collisions or centripetal force with this sensor.

ENFRC272

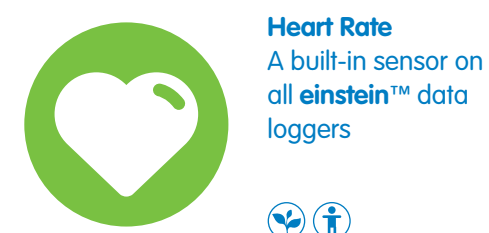


Range: CPM

This radiation sensor is used in experiments such as demonstrating the random nature of radioactivity, measuring activity vs. Distance of a radioactive source and investigating the effect of different absorbers on radiation.

* Sensor design may change

ENGEM116



Range : 0 to 250 bpm | 40-240 bmp (Tablet+3)

Use these high accuracy sensors to measure an individual's fitness, and how factors such as level of activity, gender and size impact heart rate. In the new einstein™Tablet+3 the Haert rate is using the back camera.



ENHRT-A155





Heat Index
An **einstein™ Tablet+3**
built-in sensor



Range: °C or °F

Also known as the apparent temperature is what the temperature feels like to the human body when relative humidity is combined with the air temperature.



Humidity
A built-in sensor on
all **einstein™** data
loggers



Range: 0 % to 100 % Relative Humidity

Learn about body respiration properties, biotic conditions and research the meteorological connections between humidity and temperature.

* Sensor design may change



**Humidity +
Temperature**



Range: 0%-100% Relative Humidity | -40 to 125 °C

This highly accurate combined sensor simplifies experiments involving temperature and humidity. New-when connected, it enables dew point and heat index measurement.

ENHMT041



Humidity Sensor



ENHMD014



**Lead Sensor
with Electrode ***



Concentration Range:
1 μM to 0.1 M or 0.2 to saturation

Easily measures the amount of lead in a solution and in soil.

* Electrode also sold separately

ENLEA050



**Magnetic (Triple
Axis) Sensor**



Range: ±20 mT | ± 0.4 mT

Measuring magnetic field strength along three axes, this highly accurate sensor can be used to investigate the effects of the earth's magnetic field, a solenoid's magnetic field and the magnetic field of Helmholtz coils.

ENMGN



Light
A built-in sensor on all
einstein™ data loggers



Range: 0-600 lux | 0-6000 lux | 1-128,000 lux (Tablet+3)

These Light sensors contain a high precision photoelectric cell that measures light intensity in activities such as solar radiation and photosynthesis.



Light Sensor



ENLGT009-4



Microphone
einstein™ Tablet+3
built-in sensor



Range: 35 to 10,000 Hz

These sensors are designed to study the properties of sound waves such as the speed of sound through air and other materials, sound beats or harmonic properties of sound.



Microphone Sensor



ENMCR008



Nitrate Sensor with Electrode *



Concentration Range:
7 μM to 1 M or 0.1 ppm to 14,000 ppm

Conduct water quality studies and easily and accurately measure nitrate ions in aqueous solutions.

* Electrode also sold separately

ENNTR-A017A



Dissolved Oxygen Sensor with Electrode*



Range: 0 to 14 mg/L

Measure oxygen concentration in solutions and fluids. Conduct investigations into oxygen consumption in aquariums and other bodies of water. Built-in temperature compensation makes this sensor highly accurate and easy to use.

* Electrode also sold separately

ENOX422A



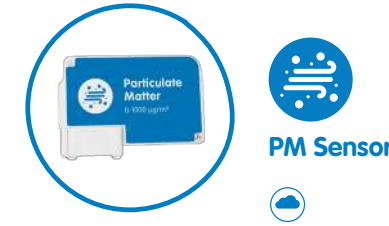
Combined Oxygen Sensor with Electrode*



Range: 0 to 12.5 mg/L DO | 0 to 25% O_2

The oxygen sensor is used to perform experiments in both liquid and gaseous environments, such as measuring oxygen in an aquarium or understanding photosynthesis.

ENOXY-A222



PM Sensor



Ranges: 1 μM , 2.5 μM and 10 μM

The PM sensor measures floating particulate matter in the air in three

* The sensor is compatible with the **einstein™Tablet+3**, **LabMateII** and newer versions

NEW



Potassium Sensor with Electrode *



Concentration Range:
7 x 10⁻⁶ M to 1M or 0.04 ppm to 39,000 ppm

The Potassium sensor can be used to measure pollution, agricultural fertilizers or the effects of processing food.

* Electrode also sold separately

ENPOT-A008



Pressure Sensor



Range: 400 Kpa

With their broad range, these Pressure Sensors can be used to monitor a variety of pressure changes. Use them in class to demonstrate phenomena such as Boyle's Law or Gay-Lussac's Law.

ENPRS015-4



PAR Sensor



Range: Ask your representative

The sensor measures the Photosynthetic Photon Flux Density (PPFD), which corresponds to micromoles of photons per meter squared per second.

Ideal for experiments investigating photosynthesis and primary productivity and can be used in science education.



pH Sensor with Electrode *



Range: 0 to 14 pH

Measure pH changes during chemical reactions, follow an acid-base titration or examine bodies of water over long periods of time.

* Electrode also sold separately. Also available with a flat electrode

ENPH-A016 and ENPHF052 (for flat)

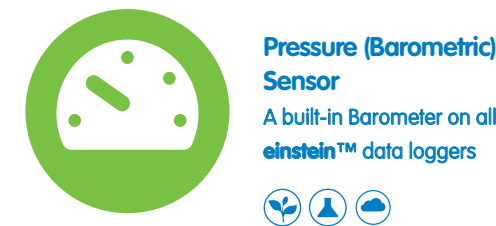


Photogate Sensor



This general-purpose sensor is commonly used for a wide variety of experiments such as studying the swinging of a pendulum, measuring the speed of a rolling object or measuring the speed of colliding objects.

ENFTG137



Pressure (Barometric) Sensor

A built-in Barometer on all **einstein™** data loggers



Range: 15 to 115 kPa or 0.148 to 1.134 atm or 150 to 1150 mbar
einstein™Tablet+3 range: 26 to 260 kPa or 0.26 to 1.24 atm or 260 to 1260 mbar

This sensor can be used as an altimeter and as a barometer for various meteorological measurements.

Investigating transpiration, measuring the respiration rate of germinating seeds and examining the Ideal Gas Law.

ENPRS015



Pressure (Barometric) Sensor



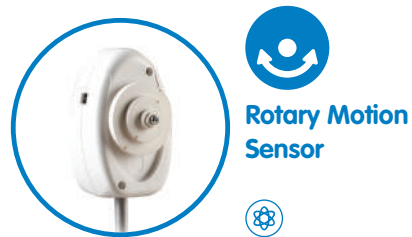
Rain Collector



Range: 0 to 819 mm

This sensor measures rainfall and is used in a variety of experiments in Climatology and Environmental Studies.

ENRNCOL



Rotary Motion Sensor

Range: $\pm 360^\circ$

Examine how objects move, accelerate and swing. This sensor and pendulum accessory help students explore topics such as the effects of gravity on objects in motion.

* Sensor design may change
ENROT-A148



Salinity + Temperature with Electrode *

Salinity range: 24 to 52000 ppm

Temperature range: 0-80°C

This easy to use sensor measures the salt content of a solution and is ideal for testing water quality.

ENSLT



Smart Pulley Sensor

Range: 0 to 99 m/s

Measure the velocity and acceleration of moving objects. Learn Newton's laws of motion including Newton's second law with this smart pulley.

ENSMP-A122

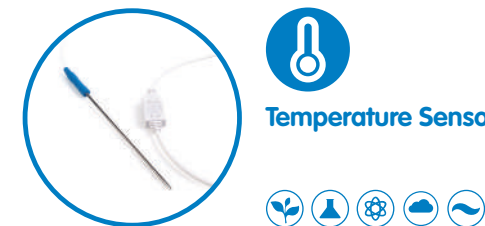


Ambient Temperature

A built-in sensor on all **einstein™** data loggers

Range: -30°C to 50°C | -15 to 50°C (Tablet+3)

This internal sensor is useful for measuring ambient temperature and conducting experiments in micro climates.

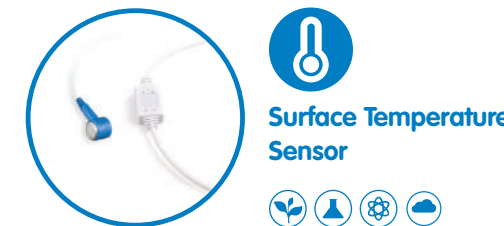


Temperature Sensor

Range: - 40°C to 140°C or - 40°F to 284°F

This all-purpose temperature sensor is particularly well suited for conducting water and solution temperature measurements.

ENTMP029



Surface Temperature Sensor

Range: -40°C to 140°C or 40°F to 284°F

This high accuracy surface temperature Sensor enables exploration of topics such as skin temperature measurements and the effects of wearing light or dark-colored clothing.

ENTMP060



Sodium Sensor with Electrode *

Concentration Range:
4 μM to 1 M or 0.1 to 23,000 ppm

Easily measures the amount of sodium in a solution. Use it for agriculture studies, experiments on food and chemistry studies.

* Electrode also sold separately
ENSOD051



Soil Moisture Sensor

Range: 0 to 200 cbar

Measure the soil's moisture electric resistance and convert data into calibrated readings of soil moisture.

ENSOI-A171

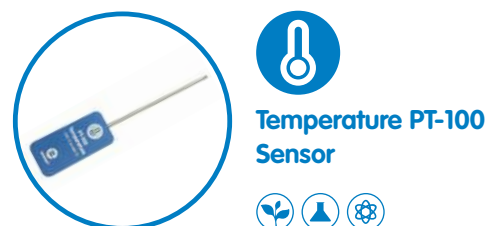


Sound Level Sensor

Range: 45 to 80 dB | 65 to 110 dB

Investigate environmental noises, room acoustics, sound level or sound isolation.

ENSND320

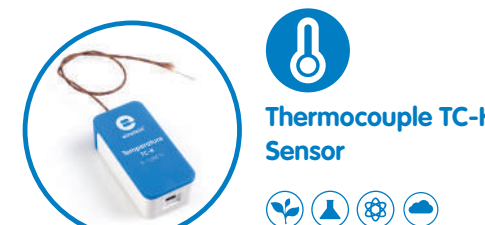


Temperature PT-100 Sensor

Range: -200°C to 400°C or -328 to 752 F

This Platinum Resistance Thermometer (PRT) is ideal for use in the research of extremely low temperatures and is also a very powerful sensor for monitoring liquids, gases and other materials.

*Sensor design may change
ENTMP027



Thermocouple TC-K Sensor

Range:
0°C to 1200°C | 32°F to 2192°F | 273.15 K to 1473.15 K

The Temperature TC-K sensor can be used in high temperature experiments such as monitoring chemical processes that occur at high temperatures, measuring the different temperature zones of a flame or simply monitoring ovens.

ENTMP025

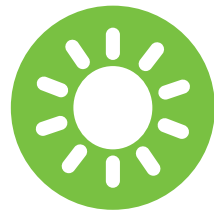


Turbidity Sensor

Range: 0 to 200 NTU

This sensor measures the cloudiness of water due to industrial processes or environmental pollution. each sensor comes with 5 cuvettes

* Sensor design may change
ENTRB-A095



UV Index

A built-in sensor on all **einstein™** data loggers



Range : UV Index (Tablet+3) 1-11
Wave length: 290-390nm

This sensor can be used mainly to measure UVA radiation. In the New **einstein™**Tablet+3, the internal UV sensor is presenting the data as UV index (UVI)



UVA / UVB Sensor



Range UVA:
320nm - 400 nm | 1 W/m² | 10 W/m² | 200 W/m²

Range UVB:
280nm - 320 nm | 100 mW/m² | 1 W/m² | 10 W/m²

Study the UV variations along a fluorescent tube, the invisible light from different sources or fluorescent rocks and dyes.

ENUVAB063



Voltage Sensor



Range: ±30 V
TRMS Range: 0 to 21 V

This sensor not only has a broad range but can also conduct extremely accurate TRMS readings. Measures both AC and DC voltages and can be used in experiments involving EMF and internal resistance, alternative energy, electric circuits, resistance of a wire or Ohm's Law.

ENVLT102



Voltage Sensor



Range: ± 2.5 V

These low and medium range sensors can measure both AC and DC voltage and are used in experiments involving EMF and internal resistance, a light bulb and a diode, I-V characteristics of a diode, electric circuits, resistance of a wire or Ohm's Law.

ENVLT003



Voltage Sensor



Range: ± 25 V

These low and medium range sensors can measure both AC and DC voltage and are used in experiments involving EMF and internal resistance, a light bulb and a diode, I-V characteristics of a diode, electric circuits, resistance of a wire or Ohm's Law.

ENVLT001



Voltage Sensor



Triple range: ±1 V | ±10 V | ±25 V

This broad range sensor can measure both AC and DC voltage and is used in experiments involving EMF and internal resistance, a light bulb and a diode, I-V characteristics of a diode, electric circuits, resistance of a wire or Ohm's Law.

ENVLT019

Accessories and Kits



einstein™ splitter

A splitter allows to connect 2 external sensors into one sensor port.

ENSPL011



Pressure Kit

A pressure kit enables the user to expand the use of the pressure sensor so that any of the kit components can be to connect to any other devices

13877



Picket Fence

Picket Fences have eight opaque bars spaced every 5 cm, silk-screened directly onto clear plastic. Drop the picket fence through a photogate to obtain records of position, velocity, and acceleration vs time or to measure gravity

DT260



Waterproof sleeve for CO₂ sensor

A waterproof sleeve for the CO₂ sensor for measuring the CO₂ concentrations in a solution.

CSWCO2



Calorimeter

The Calorimeter contains a heat source that can deliver a heat flux, at a distinct temperature, into a sample and a temperature-measuring device that can read the resultant temperature change.

ENCALMT



Terra Nova Solar Panel

A kit for solar renewable energy experiments that can be connected to all types of **einstein™** data loggers using the voltage & current sensors.

TN001



Dynamics System

Dynamics System is an ideal accessory for the high school physics laboratory that lets students perform hands-on activities in the field of mechanics, and is also well suited for teaching motion to middle school students.

DT072A

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