ARDUINO EDUCATION

SCIENCE KIT PHYSICS LAB

FAQ

GENERAL

Is the kit sold worldwide?
Yes, the kit is sold worldwide. Go to: https://store.arduino.cc/physics-lab to purchase your kit.

Do I have to be an educator to buy from your site?
A: No, you can purchase an Arduino Science Kit also if you're not an educator. Go to: https://store.arduino.cc/physics-lab to purchase your kit.

Can I use my existing Arduino ID to shop on your website?
A: Yes, you can use your existing Arduino ID.

What's included in a kit?
A: The Arduino Education Science Kit Physics Lab comes in a handy storage box, along with an Arduino MKR WiFi 1010 and all the parts needed to assemble and carry out the experiments. You will only need to add some easy-to-find household items to keep experimenting, and an Android mobile device to log your data. You will have full access to our exclusive online content platform, and you'll be entitled to a free month on Arduino Create.

What languages are available?
Arduino Science Kit is currently available in English. More languages will be available soon.

Where can I find building instructions for my Arduino Science Kit?

Each Arduino Science Kit includes exclusive access to online educational materials. Go to https://create.arduino.cc/science-kit/register-code to enter your unique access code and get started.

Does my kit need batteries?

Yes, the Arduino Science Kit requires the use of external source power. You may want to use a portable power bank (like the one used for charging your phone or tablet) or a Li-Po battery with JST connector to run motion-based experiments.

What grade level are your materials appropriate for?

The Arduino Science Kit Physics Lab is the first Arduino Kit designed for middle school students aged 11 to 14 (school grades 6 to 8).

Who is the kit intended for?

This kit has been designed specifically for science and physics teachers interested in bringing an inquiry-based and hands-on approach to their classroom. The kit is currently aligned with the NGSS Standards and UK National Science Curriculum.

What operating system is required?

You can access the online content with Windows 7 or higher, Linux, Mac OS, and Chrome.

You can access the Science Journal with an android device or tablet and Chrome OS or Chromebook.

Is the Arduino board integration on Google's Science Journal app compatible with iOS devices?

Not yet. Arduino integration is currently available on Android OS devices only. However, you can use Science Journal with your iOS device.

Is this kit compatible with Chrome OS?

Yes. You can access the online content platform from your Chromebook or Chromebox. If you own a Chrome OS System supporting Android Apps you will also be able to run Science Journal from your Chromebook.

Are you planning to release the kit in different languages?

Yes, more the kit will be available in more languages soon.

How can I obtain replacement parts?

Replacement parts are available for purchase on Arduino Store.

Can I reprogram my Arduino MKR WiFi 1010 board?

Of course you can! The MKR WiFi 1010 included in the kit is like any other regular Arduino Board that you can use for many great projects. Learn more about the tech specs of this board here: https://store.arduino.cc/mkr-wifi-1010

I have uploaded another sketch onto my board. How can I retrieve the original sketch to run my experiments?

You can retrieve your sketch by going to the Arduino Code page of your e-learning platform.

I am not familiar with electronics. Can I delete the sketch by mistake?

No, one of the advantages of getting a pre-loaded board is that you don't have to worry about deleting a sketch. You only have to think about science! Your sketch will still be there even if you click the reset button by mistake. One click will reboot your board, just wait a few seconds for the sketch to restart. If you click twice you will enter the bootloader mode, which is used to reprogram the board from scratch. You won't be able to reprogram the board unless you actually do so using the Arduino IDE, overwriting the program with a new one. To go back to your working sketch, press the reset button a third time.

ACCESS TO ONLINE PLATFORM

How many lessons are included in the kit?

The kit includes access to: a getting started guide, 9 hands-on physics experiments, a teachers' guide, printable students worksheets, and a detailed glossary.

How long does a lesson last?

The hands-on experiments are approximately 30-45 minutes long. You may want to allocate some additional time for results analysis and discussion in a follow-up class.

What concepts are covered?

We have worked with educators and subject experts to select activities related to: electromagnetism & thermodynamics, and kinetics & kinematics. All activities included in the kit have been created to explain the physics behind amusement park rides.

Do I need to follow the activities in the order provided?

No, you don't. These activities can be run independently, however we recommend you get acquainted with the kit by using the 'Getting Started' first.

Can I use this kit in my STEM after-school club?
Sure! This kit can be used in both formal and informal education settings.

Are you planning to align the kit with other national curricula?
Yes, more national curricula alignments will be available as more languages will be released.

Is the teacher guide visible to my students?
No, the teacher section is only visible to the teacher. Students can only access the tutorial section, building instructions and download the worksheets.

CLASSROOM

What are the minimum requirements in the classroom?
Arduino System Requirements: USB port / Windows XP or higher / Mac OS X 10.5 or higher / Linux / Chrome OS 38 or higher. Science Journal app System Requirements: Android OS 5 or higher / Chrome OS System supporting Android Apps. You will also need a working internet connection.

Do I need any prior experience with coding?
No, you don't need any prior coding experience. The Arduino MKR WiFi 1010 is pre-loaded with a sketch to run your experiments straight out-of-the-box! You think about science, we'll do the rest.

How many students can be enrolled with a kit?
Arduino Science Kit is ideally suited to two students.

Do I need to solder?
No, you don't. This kit includes plug-and-play modules or banana plug leads. No wiring, breadboards or soldering is required.

Is this kit compatible with Google Classroom?
Yes, this kit is compatible with Google Classroom. You can share the activities using the Classroom's button.

SUPPORT

My board is not working, who should I contact?
For technical enquiries, send an email to sciencekit@arduino.cc

My kit is missing a part and I cannot perform the experiments. What should I do?
No worries, we're here to support you! Contact us at sciencekit@arduino.cc .

If I have a suggestion for a product or product improvement, who should I contact?
Your feedback is important! Send an email to: sciencekit@arduino.cc - detailed feedback on your overall experience with the Arduino Science Kit really helps!

I am having issues with the Science Journal app. What should I do?
Visit Google's Science Journal forum: https://support.google.com/sciencejournal/community?hl=en .