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Lab4Physics

Presentation

LAB4U

Lab4Physics

For your Consideration,

Please find as follows, an overview of how Lab4Physics provides a school-friendly solution to many common problems in science education today.
Please contact me directly to further discuss the products and services which we provide. It is our goal to support the work of teachers and schools in the best way possible. We look forward to collaborating with you.

Yours sincerely,

Komal
Dadlani
CEO/Co- founder
***Lab4U**, Inc.*

Reimagine Scientific Experimentation in your School

With Lab4Physics, you can provide each classroom, teacher, and student a new way to experience and learn physics by engaging in the process of experimentation with their own data, collected in real-time.

Current Situation

In the U.S., as presently offered, science education has been systematically failing both teachers and students. There are many reasons for this: lab equipment is expensive to acquire and maintain; students often have to wait for or share lab equipment; many teachers in charge of Physics classes do not have a degree in the subject; there are often insufficient supports for teachers who are teaching science for the first time; not all teacher resource materials align with the new NGSS science standards.

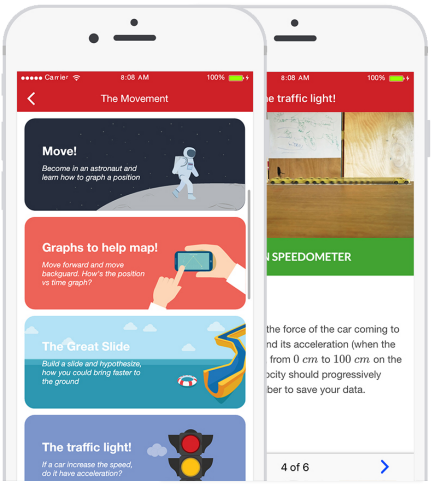
No surprise then that these factors combine to make for unmotivated students, overstressed science teachers, and a limited amount of scientific curiosity among students. Many high school and college science classes often devolve into lectures, stymied by the challenges associated with teaching science through inquiry and experimentation. We are here to help!

Why Lab4U?

Lab4U, a company now based in San Francisco, California, started in Chile more than three years ago. **Lab4U** was born of deep desire to change science education in the world from people who experienced this problem first hand. Among the founders of **Lab4U** there are two biochemists who then partnered with a software engineer, determined to imagine the unimaginable: -- to bring, through technology, integrated solutions to real problems.

Though our work, first in Chile, and now throughout Latin America, the Middle East, and the United States, we've come to understand that many of the science education challenges in Latin America are shared around the world: lab equipment is expensive to acquire and maintain; students often have to wait for or share lab equipment; there are insufficient resources guiding teachers and students in their experimenting; and more.

At **Lab4U** we are democratizing science education by developing technologies that transform tablets and smartphones into scientific instruments, giving every student the opportunity to have a lab in their pocket. We believe science education should be presented as an adventure. We aim to spark students' own curiosity about the world around them as we guide them through the scientific methods and processes that may help them answer those questions.



What is Lab4Physics?

Lab4Physics is an educational solution designed to support schools and teachers around the world to improve science education. This innovative solution makes it easy and inexpensive to bring lab experiences into the classroom as well as make it possible for students to continue experimenting and exploring physics concepts outside of the classroom.

Lab4Physics combines powerful and easy to use scientific tools with practical experiments that involve hands-on investigation. These experiments not only allow students to discover and better understand complex physics concepts, they also encourage students to ask their own questions and create their own variations of the experiments, which deepens their thinking.

Lab4Physics helps students see what an incredible adventure the study of science can be.
The Lab4Physics' mobile app is designed to be student-centered while the Lab4Physics Teacher Portal is a web platform focused on supporting the work of teachers. The predesigned experiments involve topics such as free fall or creating a pendulum to study waves.
The experiments are categorized by learning topics such as "Movement," which makes them easy to integrate into already existing curricula. The Teacher Portal provides further supports for NGSS alignment and integration. The Lab4Physics' pre-designed experiments are collaborative and based on real life scenarios which help students contextualize and apply their learning.

Students build, experiment, measure and analyze in a way that prompts them to ask their own questions and start creating their own versions of the experiments. Lab4Physics makes physics feel more accessible, understandable and appealing. Students become engaged seeing how the manipulation of one variable can change their results, that they stop thinking of themselves as just doing physics experiments - they see themselves as exploring their world and asking their own questions.

How does Lab4Physics work?

The Lab4Physics App leverages built-in sensors found in smartphones and tablets to transform mobile devices into a powerful science lab with multiple instruments that can be used flexibly by teachers and students. In this physics lab, students can find tools (like an accelerometer, a sonometer or a speedometer) that can help them measure gravity or acceleration in real time.
These tools can be used in unlimited ways, allowing students to investigate, measure, and analyze inside and outside the classroom.

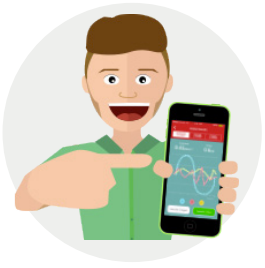
Speedometer Accelerometer Sonometer Camera

PREPARE!

Use simple and inexpensive materials

EXPERIMENT!

Physics has never been so entertaining!

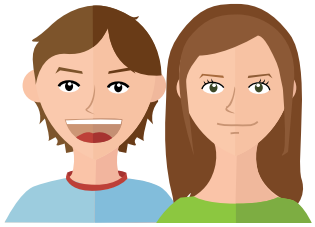


ANALYZE & COMPARE!

Get real time graphs to analyze, compare and understand

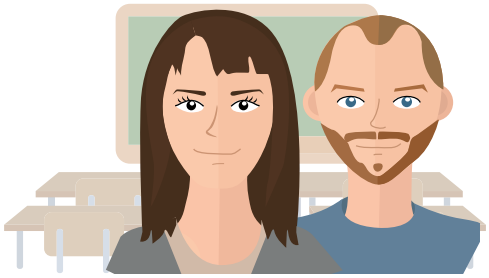
How does Lab4Physics impact the life of everyone in your School

Students



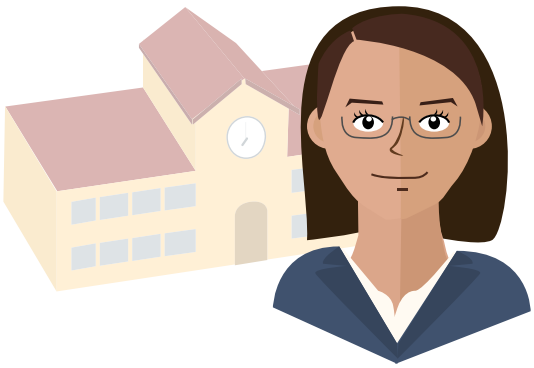
- Hands-On Science Experimentation in their Pockets
- Easy to Use
- Able to Save their Samples
- Able to Export their Samples
- Flexibility Online/Offline. Can be used forExperimenting at Home, Outside
- BYOD Model; Multi-Platform Availability
- English/Spanish

Teachers



- More than 20 Predesigned Experiments
- 6 Scientific/Lab Tools
- 100% Aligned with NGSS
- Resource Information Helps Implement the NGSS
- Lab4Physics Helps Improve Academic Performance
- Flexibility--with Use Online or Offline
- Teacher Portal: Provides a Support and Information Hub
- Free Tutorial Videos Robust Professional Development and Implementation Instruction
- English/Spanish
- Capability to Upload Experiments
- Provides Valuable Support to Teachers who are not "Physics Specialists"

Principals - School Administrators



- Replaces Schools' Need to Buy Expensive Lab Equipment or to have a lab assistant
- There is No Maintenance Cost, nor Fees for Upgrades
- Schools Save Money while Using Lab4Physics
- More than 20 Experiments Aligned to NGSS
- Helps Teachers Implement NGSS
- Schools Receive a Quarterly Report of Usage
- Helps Improve Academic Performance & Core Concepts Retention and Helps Increase Student Engagement
- Robust and Accessible Professional Development and Implementation Instruction
- Provides Valuable Support to Teachers who are not "Physics Specialists"
- Contributes to Closing the Achievement Gap and Enables Study, Learning, and Experimentation Beyond the Classroom
- Students Privacy is Strictly Maintained. Personal Data is Protected; there are NO Ads and Contact Info is not Licensed elsewhere.

The Teacher Portal

The Teacher Portal is a web platform specially created and designed to support **Lab4U** teachers. Its purpose is to provide a planning and support hub where teachers can find, access, and easily apply the following:

- All the material for more than 20 experiments
    a. Class Plan Overview
    b. Teacher Instructions
    c. Student Instructions
    d. Lab Report
        - Curriculum supports
        - Tips for and from teachers
        - Tutorial videos
        - and many resources designed to make Lab4Physics easy for both teachers and their students

Data Tracking and Reports for Administrators and Principals

Many schools even report in investing in lab equipment that is not used. We want to be surethat Lab4Physics becomes a smart investment for your school. Therefore, we provide reports of our tools that informs administrators how is the software being used. Quarterly the school gets a usage report of Lab4Physics, with which the institution will be able to evaluate the results of use and activities during the monitoring period. This service will be useful to design action plans to support the work of teachers and curriculum planning during the year.

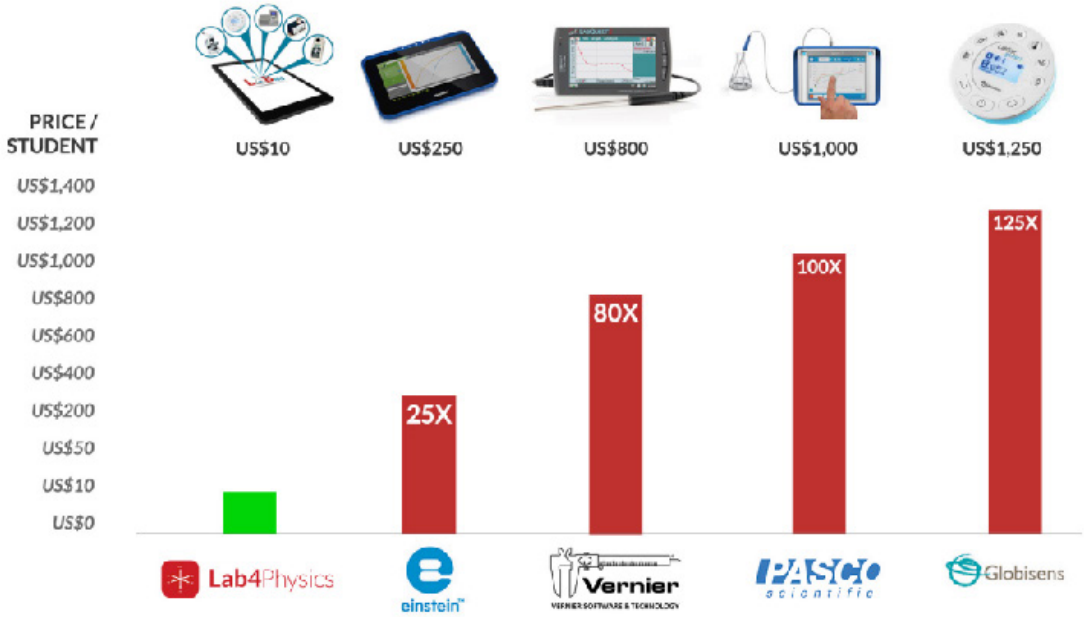
Technical and Customer Support

Technical support will be available for the use or implementation of Lab4Physics. This service is included with purchase and is available Monday through Friday from 9:00 to 17:00 Eastern Time and 6:00 to 17:00 Pacific Time, you can call us to the following number +1(415) 373 7451.

Our technical service for any incident, promises a response within 24 business hours via email to support@lab4u.co. We believe in supporting our teachers whenever they need us; customer and teacher support will be available 24 hours Monday through Sunday via telephone +1(415) 373 7451 or via e-mail to buy@lab4u.co for administrators and teachers@lab4u.co for teachers).

Lab4Physics vs. Traditional Equipment

Historically, physics labs have had to be equipped with sensors and devices such as accelerometers or lab discs. For purchases alone, in addition with maintenance costs, these and other equipment are more costly than Lab4Physics.



Annual Subscriptions

Lab4Physics is offered to educational institutions in the SaaS (Software as a Service model).
The subscriptions last for 365 days and are not automatically renewed. If the subscription is ordered for the classroom, the teacher gets a desk copy subscription free of charge.

What do I need to Implement Lab4Phyiscs in my Institution?

Lab4Physics is enabled to run on smartphones and tablet devices with iOS or Android operating systems.
The minimum requirements are:

ANDROID

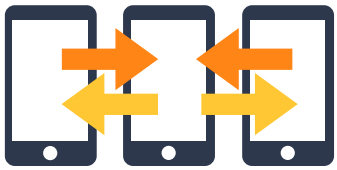
Minimal version Android: *Ice Cream Sandwich 4.0.3, API level 15 onwards.*
Processor: *Minimum of 2 cores and 1.2 GHz onwards.*
RAM: *Minimum 1GB RAM.*
Minimum Sensors requirements: *accelerometer, magnetometer, compass, camera, light sensor.*

IOS

Minimum Device: *iPhone 4S, iPad Mini, iPad v.2*
Chip: *Apple A5 Minimum*
RAM: 512
MB. Screen: *3,5" (89 mm).*
Screen Resolution: *960x640 (Retina Screen)*
Back Camera: *8 megapíxeles with LED flash and Full HD*
Recording Front Camera: *VGA for Photos/Videos Giroscope, accelerometer, Proximity Sensor and Ambient Light, Digital Camera.*

Bring Your Own Device (BYOD)

Through the acquisition of an annual subscription each student user may activate up to 3 additional mobile devices (compatible) for Lab4Physics use anywhere and anytime.



Privacy Policy

At **Lab4U**, Inc., we believe in protecting student's information respecting COPPA compliances guidelines. We believe in the Student Privacy Pledge where we commit to:

- Not collect, maintain, use or share student personal information without authorization consent or beyond that needed for authorized educational/school purposes, or as authorized by the parent or student above 13 years.
- Not sell student personal information.
- Not disclose student information collected through an educational/school service (whether personal information or otherwise) for behavioral targeting of advertisements to students.
- Not build a personal profile of a student other than for supporting authorized educational/school purposes or as authorized by the parent/student above 13 years.
- Collect, use, share, and retain student personal information only for purposes for which we were authorized by the educational institution/agency, teacher or the parent/student above 13 years.
- Disclose clearly in contracts or privacy policies, including in a manner easy for parents to understand, what types of student personal information we collect, if any, and the purposes for which the information we maintain is used or shared with third parties.
- Support access to and correction of student personally identifiable information by the student or their authorized parent, either by assisting the educational institution in meeting its requirements or directly when the information is collected directly from the student with student/parent consent.
- Maintain a comprehensive security program that is reasonably designed to protect the security, privacy, confidentiality, and integrity of student personal information against risks – such as unauthorized access or use, or unintended or inappropriate disclosure – through the use of administrative, technological, and physical safeguards appropriate to the sensitivity of the information.
- Require that our vendors with whom student personal information is shared in order to deliver the educational service, if any, are obligated to implement these same commitments for the given student personal information.
- Allow a successor entity to maintain the student personal information, in the case of our merger or acquisition by another entity, provided the successor entity is subject to these same commitments for the previously collected student personal information.

Smartphone Safety

During the usage of **Lab4U's** products such as Lab4Physics, smartphones and tablets may suffer damages if the student or teacher does not follow the strict recommendations we provide in our materials. We strongly suggest the student and teacher to protect their devices with covers and run the experiments using the guidelines provided in our materials. If needed, we may provide a list of vendors where low cost smartphones or tablet covers can be purchased in order to help students and teachers protect their devices.
Lab4U, Inc. will not be held liable for any damage resulting in the use of Lab4Physics experiments. We highly encourage teachers to read the instructions and recommendations before implementing Lab4Physics or to contact us with questions.

Lab4Physics Pricing

	CLASSROOM	SCHOOL EDITION	DISTRICT
EDITION	"EINSTEIN"	"MARIE CURIE"	"NEWTON"
PRICE	299 USD per Classroom	Volume discounts depending on # of students	Volume discounts depending on # of students
CLASS SIZE	Up to 30	30+	+1000
DURATION	365 days	365 days	365 days
Nº TOOLS	4 tools	4 tools	4 tools
Nº EXPERIMENTS	20+	20+	20+
TEACHER PORTAL	Full	Full	Full
ACCESS TO IMPLEMENTATION	✓	✓	✓
ANALYTICS / REPORTS	✓	✓	✓
TRAINING/ PD	On Demand	On Demand	On Demand
SUPPORT	✓	✓	✓

Contact Information

Lab4U's team is committed to its mission of improving science education. We are happy to assist students, teachers, administrators and parents for any questions they might have.

For technical support: support@lab4u.co
For teacher support: teachers@lab4u.co
For pilots and general client's queries: buy@lab4u.co
For general questions: info@lab4u.co

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