Testing has never been easier for teachers and more fun for students.

My A+ STEM Lab has completely revolutionized instruction and student engagement in my 6th grade classroom. What I love most is how easily we were able to integrate its tools into our existing classroom routines. The possibilities with these tools are truly endless.

— A. ADELFI, TEACHER
FREDERICK DOUGLAS ACADEMY VIII MIDDLE SCHOOL, BROOKLYN, NY

As standards and core curriculum differ by state and sometimes even by district, A+ STEM Labs embraces a flexible approach that provides a range of experiments and projects to help you fine-tune your curriculum for any age, grade or standard. Our kits are designed to expand and enhance your current curriculum. Testing, trying, looking at the learning environment with a fresh pair of eyes can be a liberating experience. The possibilities with our STEM Labs are truly endless.

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Your Curriculum, Only Better!

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Funding Sources

Let our team of committed professionals work with you to help you make the most of your budget. Whether you’re a school district, public, private or charter school, we’ve helped clients across the country and throughout the state. Just call us at 631.969.2605 or email us at info@aplusstemlabs.com and let us know how we can help you. A+ STEM Labs is committed to working with every university, school district and state department of education to support STEM education and make STEM achievable.

— A. ADELFI, TEACHER
FREDERICK DOUGLAS ACADEMY VIII MIDDLE SCHOOL, BROOKLYN, NY

The future of our economy is in STEM. So is the future of our students. According to the U.S. Bureau of Labor Statistics, careers in science, technology, engineering and mathematics are growing by about 1 million jobs per year. That’s a real school programming strategy for the 21st century world!

A+ STEM Labs is ready for K-12 schools to deliver classroom activities that reflect the needs of the 21st century workforce. We’ve worked closely with New York City Public Schools to develop the tools and experiments that map easily to their curriculum. We’ve worked with every state department of education and with state and national organizations to make STEM achievable. The future of our economy is in STEM. So is the future of our students.

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Making STEM achievable

As STEM Labs turn any classroom into a high-tech learning laboratory.

www.APlusStemLabs.com

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Each STEM Lab is configured for K-5, middle school or high school, with subject specificity for high school labs. We’ll work with you on specific configurations to meet your needs. Some of the subject areas we support are:

- Elementary Science Experiments
- 5 Minute Activities
- Science at Work
- Science of Sport
- Alternative Energy
- Level 2 & 3 Biology
- Level 2 & 3 Chemistry
- Level 2 Physics
- Level 3 Physics
  - Electricity and Heat
- Level 3 Physics
  - Light, Sound and Pressure
- Level 3 Physics
  - Forces and Motion

Measure Students’ Success

Engage, monitor and measure your students’ mastery of classroom content through the A+ STEM Lab’s student response system, which includes assessment software and student “clickers.” Easy-to-use software lets you insert response questions right within your PowerPoint slides. Create and deliver self-paced benchmark, district, end-of-course and state level assessment exams. Testing has never been easier for teachers and more fun for students.

- Digital answer submission eliminates hassle and cost of bubble sheet collection and scanning
- Save time with on-demand data scoring and reporting within software
- Simple import/export of data to any third party system
Hands-on learning makes for memorable learning and greater retention of concepts. Each of our labs can support hundreds of grade-appropriate experiments.

Middle School
- Use all different types of light sensors
- Collect data from different materials exposed to changing environmental conditions
- Collect data from different objects
- Use different light sensors to compare
- Use light sensors to take measurements as the load changes

High School
- Use all different types of sound sensors
- Collect data from changing environmental conditions
- Collect data from different materials
- Use different sensors to record the data
- Use different sensors to record
- Use different sensors to record

In each of our labs, we have a focus on grade-appropriate capabilities. Each lab is tailored for the needs of Elementary, Middle or High School students. We also offer a specially configured Pre-K version. All our experiments that use data they personally collect and sample are memorable learning and greater retention of concepts. Our labs use the tools real scientists use. My students feel like real scientists, using the tools real scientists use.

Philip J. Abinanti  
PS 108, Bronx, NY

A+ STEM Labs

A+ STEM INTELLIGENT LAPTOP CARTS

Free educational software comes pre-loaded on your Lab's student laptops. A+ STEM Labs also integrates with a range of other classroom accessories, including student laptops, Zspace, K'Nex Computer Control, NAO, Choreographe, and even dance. Make him talk, walk, respond to

K'Nex Computer Control

In answer to the question, “What makes the most noise?” students learn simple to complex coding and even dance.

The popular Maker Movement represents the educational trend that brings learning about biology, anatomy, physics and much more. In addition to providing a captivating experience that brings the future careers.

Students are exposed to changing environmental conditions. All our systems are connected and can record and react to changes. This allows for a safe and legal maximum use of radiation and non-ionizing radiation. Using a calculation, analytical, and analytical solution, all related to 3D printing helps develop the very direct connection between abstract design and printing solution teaches students how to design, plan and build a product from raw idea to finished item, encouraging them to see the creation of tangible objects.

A+ STEM Lab's STEM (and STEAM) disciplines enable the physical reality learning platform that allows students like few other tools. Through trial and error, students learn basic coding and even dance. What is the relationship between kinetic and potential energy?...
Hands-on learning makes for memorable learning and greater retention of concepts. Each of our labs can support hundreds of grade-appropriate experiments.

Experiments that use data they personally collect and sample from the world around them. All our STEM Labs for Science believe that hands-on learning makes for memorable learning and greater retention of concepts. Each of our labs can support hundreds of grade-appropriate experiments.

High School

• PHYSICS

Effect of changing transmitters and receivers.

Investigate frequency in light and sound sensors to collect data on how vibrations affect light and sound. Use light sensors to observe changes in sound levels from different objects.

• CHEMISTRY

Learn to use electronic balances to measure changes in weight.

Conduct a calorimetric experiment within an aqueous solution while measuring temperature changes.

• BIOTECH

Investigate DNA and RNA sample size, concentration and density.

Use a spinning magnet and a voltage sensor to collect data on how voltage and current affect magnetic fields over time.
Hands-on learning makes for memorable learning and greater retention of concepts. Our STEM Labs engage students with a dynamic, interactive teaching platform. Each of our labs can support hundreds of grade-appropriate experiments.

【Middle School】
- How do different materials have different properties?
- Can a material change its physical properties in response to changes in environmental conditions?
- How can we use different tools to measure different materials and their properties?
- Can students perform experiments safely and accurately?
- How do different materials change their states when exposed to changing environmental conditions?
- Can students complete an experiment on their own?

【High School】
- How do different objects leave a heat signature?
- How do different activities affect your heart rate?
- Does light shine through everything?
- How does the body regulate temperature?
- Pre-K
- What makes the most noise?

Example experiments include:

- **CHEMISTRY LAB:** Use a spinning magnet and a voltage sensor to collect data on how the speed of magnet, current, and voltage affect electromagnetic energy.
- **PHYSICS LAB:** Conduct a calorimetric experiment within an aqueous solution to observe the effect of temperature change on the rate of chemical reactions.
- **ELECTRONICS LAB:** Use light sensors to take measurements and compare how well different sunglasses block out light.
- **ROBOTICS LAB:** Use programmable robots (e.g., NAO) to help students learn simple to complex coding languages such as Scratch, Python, and C++.
- **BIOLOGY LAB:** Use an infrared sensor to measure the heat radiating from objects and left behind by them.
- **SPECIALTY KITS**
  - **Robot, K'Nex Education** provides a complete STEM educational solution that integrates mechanics, physics, and 3-D modeling and printing.
  - **K'Nex Computer Control** and **NAO Choreography** are both NAO robots that enable students to learn programming through a software interface. Few activities provide such a broad exposure to STEM related subjects, while offering such a wide range of accessible, cross-curricular classroom experiences.

A+ STEM Lab’s software suite, called Zspace, offers an experiential way never before possible through the use of virtual reality, augmented reality, and immersive learning. Zspace provides an online simulation that supports the work of many educators who are looking to expand the educational mission of their schools. A+ STEM Lab’s Intelligent Laptop Cart is a broad platform for computer-based instruction within a classroom. In addition to providing each student with the tools they need to be productive and efficient in the classroom, it also serves as the perfect platform for any computer application or program, and even summer science camps. All related software comes pre-loaded on your Lab’s student laptops.

Classroom management tools include:
- Group collaboration
- Managing tests and quizzes
- File transfer and distribution
- Student demonstration
- Video and audio streaming
- Screen blanking

Intelligent Laptop Cart also integrates with a range of classroom presentation equipment, our student response system, and programs, and even summer science camps. All related software comes pre-loaded on your Lab’s student laptops.

A+ STEM Labs for Science believes that hands-on learning makes for memorable learning and greater retention of concepts. Each of our labs can support hundreds of grade-appropriate experiments.
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**A+ STEM LABS FOR SCIENCE**

- **Middle School**
  - General Scientific Skills
  - Multifunctional Probes and Data Loggers
  - Conduct Experiments in a Step-by-Step Manner
  - Probability
  - How do different objects leave a heat signature?

- **High School**
  - Probability
  - Parasitic
  - How well do different sunglasses block out light?
  - High School
  - Conduct a calorimetric experiment within an aqueous environment.

Our special activity kits integrate seamlessly with classroom’s laptops.

**SOFTWARE**

- Classroom Management Tools include:
  - Video and audio streaming
  - Screen blanking
  - Monitor and control
  - File transfer and distribution
  - Student demonstration
  - Video and audio streaming

**SPECIALTY KITS**

-**STEM**
  - **BIOMEDICAL**
    - 3-D Modeling and Printing
  - **PHYSICS**
    - Conduct experiments with light sensors to determine how well light travels through different materials.
  - **ENGINEERING**
    - Conduct an experiment to determine how well a robot's movement is affected by its design.

**INTELLIGENT LAPTOP CARTS**

- **Software**
  - **ZSPACE**
    - Is safer and less expensive than using physical equipment or cadaver animals, thereby making a wider range of learning materials available to students.

**K'NEX COMPUTER CONTROL**

- Beginners learn using K'Nex to program the NAO humanoid robot to bring the robot "to life." Students learn simple to complex coding and error, and teamwork, students develop critical thinking skills that bring the robot to life.

**NAO ROBOT**

- The NAO humanoid robot is a desktop-based, 3D virtual reality learning platform that allows students to immerse themselves within the virtual environment.

**BIOLOGY LAB:**

- The learning platform simulates the process of design and testing experiments.

**PHYSICS LAB:**

- The software comes pre-loaded on your Lab's student laptops.

**SPECIALTY KITS**

- The K'Nex Computer Control and the NAO Robot provide such a broad exposure to STEM related disciplines while generating as much enthusiasm from students.

**Classroom**

- The Intelligent Laptop Cart provides the teacher with a complete, all-in-one solution for teaching science, math, and other subjects.

**InfiniCalm**

- The NAO humanoid robot is a complete teacher's command platform with an integrated computer, screen, and control panel. It also serves as the perfect platform for any computer-based educational programs, including web/game design, programming, robotics, reading intervention, CAD/CAM, 3-D printing, and much more.

**USING INTELLIGENT LAPTOP CARTS**

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**CLASSROOM MANAGEMENT TOOLS**

- Classroom Management Tools include:
  - Video and audio streaming
  - Screen blanking
  - Monitor and control
  - File transfer and distribution
  - Student demonstration
  - Video and audio streaming

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Funding Sources

Let our team of committed professionals work with you on funding and procurement options. We’ve worked closely with New York City Public Schools to find full or partial funding for over 500 labs throughout the city. Let’s see what we can do for you.

Our labs are also available for procurement through state purchasing contracts, as well as the PEPPM Technology Bidding and Purchasing Program, which is honored by almost all 50 states.

Contact us to learn more:

A+ STEM LABS
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