



Presentation Outline

- Millennium Participant and Sustainable Classroom Model
- PASCO Complete Solution for a Sustainable Classroom
- Energy and STEM as Driver of Sustainable Development



PASCO Participant and Founding Member

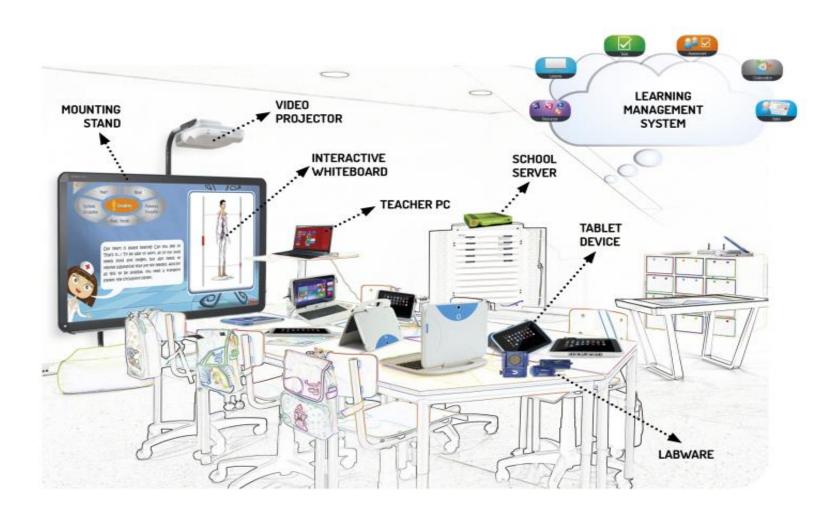
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"In today's world, science and technology are increasingly interwoven into our daily lives. National economies depend on it. Our planet and the world's population depend on it," said Paul Stokstad, founder of PASCO Scientific. For nearly 50 years, PASCO has dedicated itself to helping educators provide an effective, modern science education. As a founding member of the Millennium@EDU Foundation, we will work to ignite and support truly transformational projects in education, bringing this opportunity to students around the globe. PASCO and our employees are completely dedicated to this cause."

Mike Bridge – Corporate Vice-President

USA

Sustainable Classroom Model



PASCO Complete Solution for a Sustainable Classroom

The Complete Package





Technology

Customized Content

Professional
Development and
Curriculum
Support

PASCO Technology

PASCO Smart Cart







Motion encoder

no tape required 0.1 mm resolution

3-Axis Accelerometer (+/- 16g)

3-Axis Gyro

Force sensor (+/- 100N)

Simultaneously measure

Position

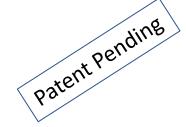
Velocity

Acceleration

Force

Incline angle

No track required.





All sensors. No limits.



PASCO AirLink.

Every PASCO sensor can be made wireless.

No exceptions.



Your choice – supports both USB and Bluetooth connection.



One simple user experience across all technologies





Providing a future-proof investment



New wireless sensors

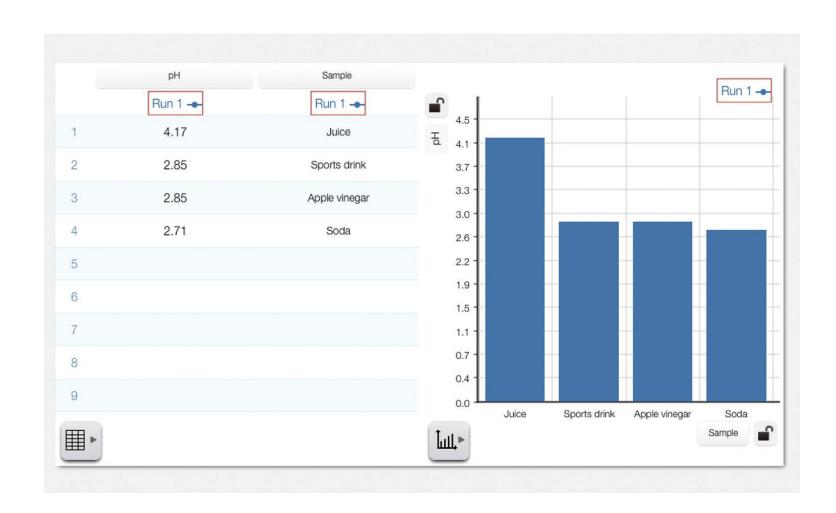


- Eliminate interface—reducing total cost and complexity
- Minimize clutter and clean up
- Simplified experience for better time management
- World-leading prices for improved access for all



PASCO CONTENT

SPARKvue – a full featured software



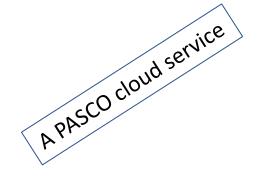
Choice of display types

Customizable layout



Data Sharing with SPARKvue

- Easiest solution available
- Any device to any other devices
- No extra equipment required







PASCO Sparkvue Content





Datalogging sensors



Collect data beyond Bluetooth range

Collect data without draining tablet/computer battery



Study microclimates at multiple locations overnight



A real classroom solution





No limits.



School Ecosystem

Computers
Win/Mac
Chromebook
iOS
Android

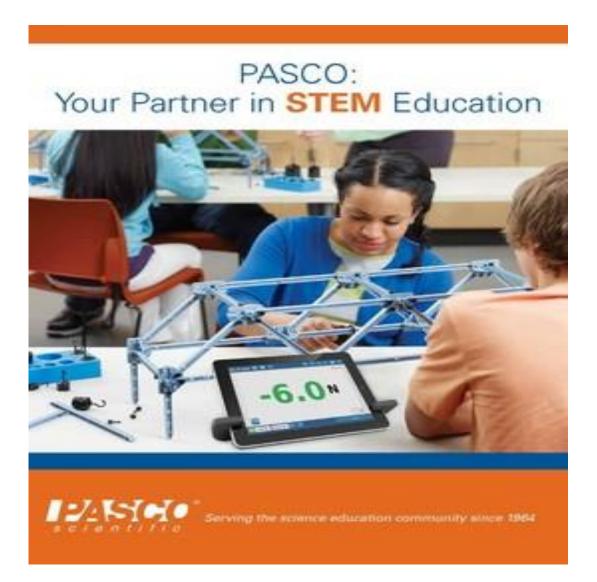


One software All sensors No exceptions



PASCO CURRICULUM DEVELOPMENT AND SUPPORT

STEM Curriculum



Motivate and Inspire students to excel in Science, Technology, Engineering and Math (STEM) Curriculum

"Energy and STEM as driver of Sustainable Development".

Engineering







Digital/Analog Breadboard



Renewable Energy Bundle Kit-STEM Lesson



Renewable Energy Bundle Kit Content

The Renewable Energy Bundle Kit contains all of the equipment needed for a single lab station:

- Long turbine blades (6)
- •Short turbine blades (6)
- •STEM adapters for student designed blades (6)
- •Towers (2)
- Weighted base
- Nacelle with generator
- •1 W Solar Cell
- •LED
- Patch Cords (2)
- Wireless Voltage Sensor
- Wireless Current Sensor
- •Shrouded Alligator Test Leads
- Sparklabs



Renewable Energy Sparklabs

- **Design an Efficient Turbine STEM challenge**: Design the most efficient wind turbine for a given wind speed
- Energy Transformations: Learn how one type of energy can be converted into another. Observe energy transformations that produce electricity.
- What is Electricity? Determine the relationship between voltage and current while studying electricity in a solar-powered circuit.
- Solar Panel Performance Investigate how panel angle, cloud cover, and dust affect solar panel output.
- Wind Power I: Distance and Speed Understand the relationship between wind speed and turbine output.







STEM CURRICULUM AND CASE STUDIES

- STEM TECHNOLOGY AND CURRICULUM DEPLOYMENTS
 - UAE MOE
 - EGYPT MOE
 - USA Public Schools
 - QATAR MOE
- STEM CASE STUDIES
 - Windham Public Schools Connecticut, USA
- Public School in Hillsborough County, Florida, USA





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