



Smart Science Cart

Converts any
Classroom into a
Science Lab





Background

- The number of young people enrolling in science based subjects has rapidly declined worldwide, especially in developing countries
- Due to the lack of trained science teachers & science laboratories, and limited access to educational resources, improvement of science education has been slow
- Solution: SmartLabs Smart Science Cart, an innovative product that can be used by teachers and students to facilitate the teaching and learning of science education.





Introduction

- The SmartLabs Smart Science Cart has been designed by science teachers for science teaching
- It is a mobile self-contained laboratory facility for teaching Science, mapped to your curriculum and delivered in your language
- It is:
 - Innovative
 - Mobile
 - Modular
 - Customised
 - Multi-lingual
 - Functional
 - Interesting
 - Cost Effective
 - Technology Rich
 - Secure

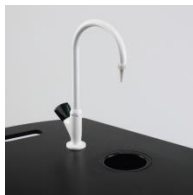




Smart Science Cart



12mm laboratory standard Epoxy Resin worktop



Laboratory-standard single gas tap, water tap and sink



Removable colour-coded equipment trays



RCD protected electrical supply





Smart Science Cart



Robust water pump



Water management system and gas bottle storage



Multiple power sockets in a safe location



First aid kit and Fire extinguisher / Fire blanket





Smart Science Laboratory



For a class of up to 30 students, SmartLabs recommends the Smart Science Laboratory, comprising of 10 Smart Science Carts, each supplied with a range of experimental equipment and technology & learning resources.





Experimental Adaptability

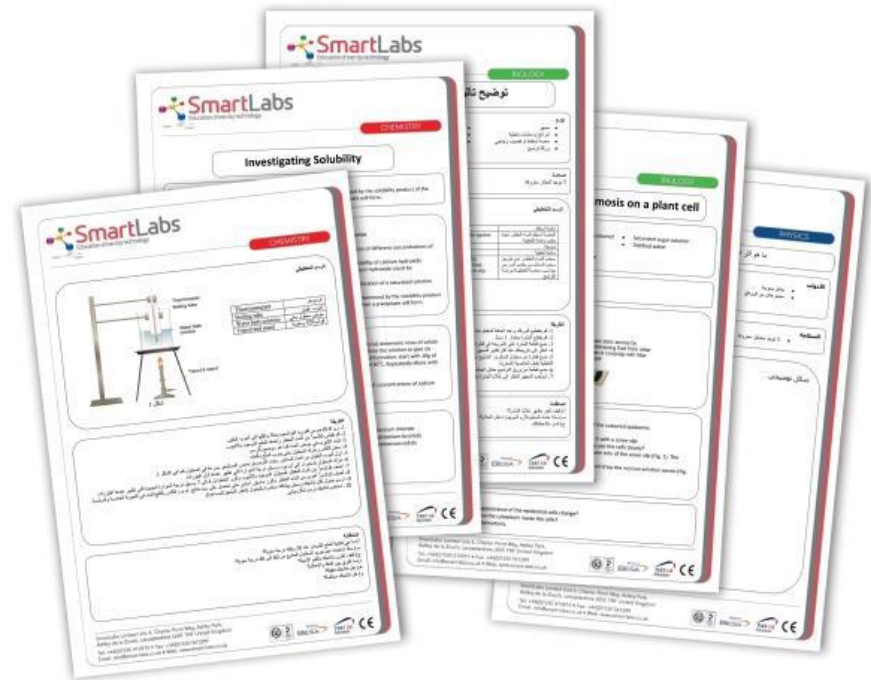
- A wide variety of equipment covering Biology, Chemistry, Physics and Microscience
- Equipment is stored in colour coded trays with lids and foam inserts, providing safe & secure storage and easy identification of subject areas and missing items





Curriculum

- Equipment is mapped to the Cambridge IGCSE Combined Science Curriculum.
- Students can perform, as a minimum, 51 practical experiments using experimental worksheets
- A curriculum mapping service is available to directly link equipment & experiments to the curriculum taught in your country





Multilingual Teaching Resources

- Student experimental worksheets are available in English and local languages in order to guide the students through the practical activities and subsequent classroom discussions
- A comprehensive range of teacher learning resources for lesson planning and preparing practical sessions are also included





Curriculum Mapping



1. Take a curriculum



2. Review syllabus



3. Select suitable worksheets from library



4. Generate Equipment List



6. Map Software



5. Integrate into Equipment Trays





Technology Rich



The Smart Science Cart is supplied with a range of Technology Rich Enhancements including:

- Connection to a PC or Laptop
- Curriculum Software
- Data Logging
- 3 in 1 Microscope

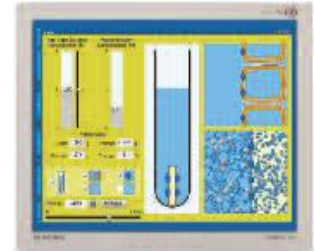




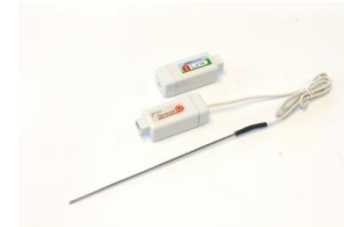
Curriculum Software



- Sunflower for Science is award-winning multi-lingual science software that integrates perfectly with the Smart Science Cart
- It sets the standard for richness and interactivity - the best way to engage students learning secondary science
- It comes with:
 - Built in worksheets
 - Self-marking quizzes
 - Suggested classroom activities
 - Full Colour help files
- It can be mapped to the local science curriculum and the integrated “course mapper” tool allows teachers to instantly find the program they require to teach the relevant topic



Data Logging



- The Smart Science Cart is supplied with a Data Logger, Temperature & PH Sensor
- No Installation, No PC, No Network required
- Fast datalogging
- Long term remote logging
- Standalone
- Connect to a PC or Projector



Digital Microscope



Features

- 3-in-1 Digital Microscope
- Award winning patented design
- Sleek, sturdy metal base
- 20x, 40x, 100x magnifications
- Plug-n-play, multi-platform software



Tray Storage System



Foam Inserts to protect and organise equipment

The tray is designed for easy handling. The flat front panel is ideal for labelling the contents

Light weight for easy usage

Handy see-through lids protect equipment from dust and water

Over 30 different tray colours offering plenty of options to organise and recognise equipment





Why use the Smart Science Cart?

- A self-contained mobile science cart with a comprehensive range of science equipment, software and learning materials
- Instantly converts any classroom into a science lab
- The equipment and software can be mapped to give 100% coverage of local science curriculum
- It is flexible and modular so equipment can be replaced if, for instance, more focus on Physics rather than Biology is required





Why use the Smart Science Cart?

- All learning materials can be in local languages
- It is cost effective, eliminating the need for traditional capital intensive fixed laboratories
- Teacher training and continuous professional development can be offered





Smart Science Cart

Please Contact SmartLabs
for Further Information

sales@smart-labs.com
+44(0)333 2206023

