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Science laboratories





Examine & try out

Creating the optimal settings for future pupils is one of the main challenges for ST Education.

The increased focus on Science in education also heightens the demand for flexible space and improved facilities thus creating the optimal teaching environment.

Active experimental areas with pupil workstations to carry out practical tests, and a teacher workstation with excellent visibility and access are essential.

ST Education is a proactive and innovative partner in both renovation and new build projects. Half a century of experience gives us in-depth knowledge, understanding and competence to not only design and equip any project area, but also first class delivery and installation.

We can assist any client to realise their ideal teaching environment. The solutions which we offer will be fully discussed and presented to meet the most demanding of budgets, and always comply with current safety issues, procedures, regulations and legislation.

The ST Education solution portfolio is a superb blend of distinct knowledge and consistent use of the most durable raw materials from sustainable sources.

▲ A scientific exploratorium, where varied tests and ideas are carried out and displayed, is inspiring and creative. Mobile cupboards make each individual project portable.

Experiments should be carried out in the laboratory!

Pupils' active involvement in experiments demands the best and safest working conditions in the rooms.
ST Education is pleased to advise on optimal furnishing. All of our designs will be in line with the recommendations as suggested in DfES Building Bulletin 80
– Time in the experimental area should be spent carrying out tests, observation and the recording of results.



▲ Mobile extraction hoods facilitate flexible demonstration.



▲ Pupil workstations along the wall containing installation casing for water, electricity, gas, and IT. Note the covering grating for the radiator.



Safety zone with an overview

Safe storage of chemicals and volatile material is of the highest importance. A chemical cupboard with constant ventilation and safety glass is the perfect solution. Combined with a mobile chemical waste trolley, this solution gives an excellent overview and a high level of safety. Lockable, naturally!

Extensive knowledge in furnishing

To ST, every room is unique. Whether we are simply modifying or refurbishing an existing room or laboratory, the size and location of a room brings opportunities. ST attempts to optimise the space available for the benefit and pleasure of every user.

As safety is an important factor, the attention to escape routes, process ventilation, and a clear view of all elements in the room is highly prioritised when designing a solution. Most schools want flexibility in specialist subject rooms for extended applications. Here, mobile units and height adjustable tables are also essential elements.

ST has great experience in realising various ideas and desires and at the same time complies with currently accepted best practice, guidelines and legislation.

◀ Our cast hinge is unique; it opens to 270°, and it can withstand heavy loads when open. The hinge has been developed for contract type use, where rough treatment often occurs.



▲ Trolleys are a safe and effective way of transporting materials.



▲ Service bollard with built-in installations and height adjustable tables facilitate a high level of flexibility.



▲ All chemical storage cupboards can be connected to constant extraction systems if required. Note the extension cupboard solution for larger bottles and containers.



Think creatively and utilise the space

Very often, the need for alternative and innovative thinking is necessary in order to design the perfect accommodation. A good example is storage behind a vertically sliding board as pictured. ST has extensive knowledge in "thinking outside the box" to provide creative furniture solutions which give maximum utilisation of existing space.



- ▲ A trolley with trays is an effective way of keeping class sets together in one single, convenient and accessible location. They also facilitate safe movement of equipment within Laboratories for Technical Support Staff.
- ◀ Table mounted installations at pupil workstations. The stools can be stored off the floor to facilitate cleaning.

Dialogue with the users

At ST, we believe that the best solutions are obtained via a close dialogue with the users. Designing the room should be based on the specialist requirements. ST then translates this into the best choice of products and materials.

The need for thorough consideration when it comes to materials and colours is important as specialist subject rooms typically have to function properly for many years.

Securing the products for the future when it comes to maintenance and cleaning is also an important factor. Our standard solutions are virtually maintenance free and demand only normal cleaning.

User-friendly, isn't it?



When nature is to be investigated

Science and biology are both subjects which demand space for various tests and growing different kinds of organic materials. Large project tables, mobile tables, storage and work tops along the walls give optimum conditions. The room pictured below motivates the desire to learn.



◀ Chemical cabinet with full extension for storage of larger containers and bottles. A practical solution in any Prep. Room or Laboratory.



▲ A long work top combined with upper cabinets gives added space for storage.





Safety and experiments

ST looks upon safety as being the essential parameter when designing and furnishing a room. That way, we secure the best possible conditions when doing exciting experiments and tests without reducing the learning level.

It is of great importance that the teacher has all necessary safety equipment such as an emergency stop device for gas and electricity. Furthermore, an emergency shower, an eye wash device and a first aid kit can be included if appropriate as close to the Teacher as possible in case of accidents.

In addition to this, passive safety such as height adjustable work tops and the correct positioning or service outlets can prevent accidents.

Height adjustable pupil work stations give perfect working conditions. Note the vent holes in the installation box that prevent gas from accumulating in case of a leak.



▲ Laboratory dishwasher is an excellent choice for the cleaning of test tubes and flasks.



▲ Mobile cupboards are an efficient and flexible storage opportunity.



▲ Teacher's desk with installation of gas, water, electricity and ventilation plus optimum location of main services isolation devices.



▲ Small room equipped with interactive board. Note the hanging stools and local extraction in the panel box.



▲ Lecture rooms are still popular.



▲ Eye wash device centrally placed in the teacher's desk.

Get in position for the best rooms available

From merging science rooms to one science centre or renovating existing physics and chemistry rooms – it's all about creating the best settings for the pupils to experience the excitement when they explore and experiment.

ST holds the know-how and experience in creating rooms that inspire learning. With a strong attention to detail, ST creates user-friendly science rooms that work for years and years.

Using the best material gives, among other advantages, minimum maintenance and makes an ST furnishing a great investment.

Our experienced sales team will be delighted to offer impartial advice on optimum room design and furniture solutions for your next project.

Visit our website, www.st-education.co.uk



