

Extra classrooms for Kingsbury School



“By building 3 classrooms we were able to create space to introduce a brand new sixth form for the school”

Kingsbury School, Tamworth, needed extra space to accommodate its new sixth form provision. They were looking for something more sustainable and substantial than the hire of prefabricated, mobile classrooms.

A successful tender led to the start of this second project between Smart-Space and Kingsbury School following the successful build of a permanent sports hall a few years before. Smart-Space won the tender by offering a popular and effective solution.

The school opted for a fully insulated, heated, permanent structure which is fully compliant with simplified building energy model (SBEM) calculations.



The new three-classroom building took 15 weeks of on-site construction with minimal disruption to the school. It was designed to include special sustainability features and to accommodate specific classrooms types, including practical subjects - as pictured.



“Sustainability
was key”

By adding in 3 new classrooms to cover food technology, textiles and psychology lessons, the school was able to admit an initial 35 new sixth form students in its first year. The extra space supported the school's ambition to accept 150 post 16 students.

Simon Cotton, head teacher commented: "Sustainability was a key element of this project so we sought tenders on this basis. Smart-Space came back with a competitive proposal that balanced the use of innovative technology with more conventional approaches to give us a functional and highly efficient building within budget."

Smart-Space introduced many efficient measures that worked in tandem with the school's sustainable objectives. The airsource pump, for example, was powerful enough to heat all three classrooms with the addition of underfloor heating as well. The main benefit of this type of heating is the ability to draw in air from outside and convert it to cold or warm air as required.

The classrooms were also fitted with energy efficient lighting that is a standard feature with a Smart-Space build - however it added to the credentials of an energy efficient building as specified by the school.



Sustainability special features include:

- ✓ secondary internal lining with 40mm insulated foam board
- ✓ insulated floor slab
- ✓ underfloor heating
- ✓ primary heating from an air-source heat pump (pictured below)

As with our previous experience with Smart-Space, all site works were well coordinated and the whole package came together quickly and as promised. We now have a new building that is itself a practical demonstration for our students of the application of technology to achieve sustainability.

Simon Cotton, head teacher

