

# The SciTech Centre

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Registered charity number 310013



Haileybury





Established in 1862, Haileybury is a leading British co-educational independent school which offers modern boarding and day provision for pupils aged 11–18. Situated on a beautiful 500 acre campus, just 20 miles north of London, Haileybury is distinct. Our tradition is as an outward-looking school, steeped in history and architecture, and the academic life of the school is flourishing.

We are creative, innovative and at the forefront of technology in terms of our teaching and our curriculum. We place a high emphasis on equipping pupils with powerful knowledge, we promote intellectual curiosity, and encourage them to develop this as they seek to become doctors, biochemists, statisticians, innovative entrepreneurs or engineers.

# From the Master

*Our clear goal, today, as always over our more than 150 year history, is for our young men and women to leave Haileybury fully equipped with the life skills and the academic credentials necessary for them to flourish both in a competitive global employment market and in life itself.*



We are very excited to introduce you to our plans for a new Science Centre, incorporating a Research Centre. This project is the result of two years consideration of the School's estate; its history, the present and the future.

It is our ambition to provide our pupils with the very best facilities for all aspects of their education. At Haileybury, we want to promote a love of learning, intellectual curiosity and ambition. We believe that it is important that our pupils identify with the subjects which they are studying and that they learn through collaboration, as well as independently. As in many schools, science and technology sit at the heart of the curriculum. Practical work and theoretical study are, of course, central to these disciplines. But we believe that research is also of fundamental importance to the understanding of science and technology, hence the plans outlined in this booklet. Whilst we introduced science research into our curriculum, the new facilities will help us to integrate it fully.

The School is fortunate that over eighty years ago, Council had the foresight to ask Herbert Baker to design the magnificent neo-Georgian

style Science School. Baker's building is still a wonderful facility and very much in use today. The plans for what is the new Science Centre pay homage to Baker, whilst providing modern state-of-the-art facilities.

Haileybury is a school that has always looked outwards. As such, we want to share our vision and our facilities with others. Our partnership with Haileybury Turnford is especially strong and we aim to open the doors of these buildings to their staff and pupils. Likewise, we hope to encourage children from other local schools to visit what will be unique facilities.

We are committed to sustainability and are delighted that our architects have provided a design which meets the highest environmental standards. We look forward to welcoming you to Haileybury to visit our new Science Centre and Research Centre facilities. I would like to express in advance my deepest gratitude for any support, for what I hope you will agree is a most exciting project.

# From Stan-X pupils



*"I plan to study medicine at university and go on to becoming a doctor, so Stan-X will be a very unique addition to my application. Our daily working lab environment is one that most will experience for the first time when they go to university, but we're gaining that experience in school alongside Dr Kim and the teams at the University of Oxford and Stanford University.*

*There is so much excitement around the SciTech Centre and I cannot wait for the opportunity to sit and work with my peers, collaboratively, outside of classrooms."*

Ruth

*"The unique opportunity to learn from, and have conferences with, leading professors from around the world, was so exciting to me. I hope to study natural sciences at university and my aim is for the University of Cambridge, so being able to take on an advanced undergraduate level course was what immediately attracted me to apply for Stan-X.*

*Improving my communication and collaboration skills, alongside my understanding of advanced genetic*

*biology and learning science the way it was intended, through trial and error, has been such an experience for me. The architectural plans for the new SciTech centre are stunning and I am excited at the prospect of combining all the sciences and technology subjects into one building."*

Hari





# Masterplan overview

*The School's beautiful estate has rich architectural legacy, with buildings dating from 1809*

Our Masterplan process allowed us to pause, reflect and take a medium to long-term view on site development and how we continue to progress as a school, consistently considering sustainable use of the existing facilities. We have acknowledged the importance of maintaining the existing estate, alongside new developments, whilst focussing on the importance of road and pedestrian infrastructure.

The masterplan starts in the classroom, providing high quality, fit-for-purpose, flexible and future-proof classrooms, further allowing for innovative teaching and learning. We have invested significantly in educational, co-curricular and boarding facilities in recent years, including the Music School and our Modern Languages department, sports facilities and boarding houses such as Colvin and Melvill.

As we continue to progress forward, our ambitious 15-year master plan includes three core capital development projects including a sports park, a theatre and performance hub and the hugely ambitious SciTech Centre.



Top: Form Room Block, now returned to its former glories following a major renovation.

Middle left: The award-winning Colvin House, completed in 2001.

Middle right: Atrium detail from the 1932 'Science School' building.

Bottom left: Terrace portico columns.

Bottom right: Chapel, completed 1878, modified in the 1930s



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Design  
Technology

Biology &  
Computational  
Science

Research

*Visualisation of the  
Ground Floor of  
the SciTech Centre,  
featuring classrooms,  
the central Courtyard/  
Cloisters and the  
Biodome (upper left)*

Chemistry  
& Physics





# Progressing for future generations

Haileybury's progressive, forward-looking curriculum incorporates science, technology, engineering, art and mathematics allowing them to exist together logically and with a clear interdependence. SciTech is a bold statement of our academic ambitions and will place Haileybury at the forefront of teaching and learning. It will provide us with the best school-based science facility in the country, doubling the size of our current facilities, enabling us to develop the curriculum and to challenge our pupils even more.

Science and technology underpin our daily lives and are fundamental to our planet and the future, supporting our mobility, connecting us digitally, keeping us safe and building a brighter future. They play a critical role in addressing major global challenges such as providing a sustainable supply of food, water and clean energy, and advancing medicine and healthcare.

SciTech will present Haileybury's academic ambition, whilst continuing to enhance the architectural splendour of the school. It will demonstrate in practice, energy efficiency and sustainability, subjects that will themselves be taught to pupils as part of our curriculum and will link the existing Biology, Physics and Chemistry and Design Technology buildings, with a quadrangle at its centre, designed as space for pupils to meet, discuss and interact with the resources, including a biosphere and a pond.



# The essence of science is discovery

True science builds resilience, is open-ended and unscripted. We want our pupils to aspire to progress to higher education to study and we are committed to ensuring they are prepared to do so.

Haileybury has embarked on Stan-X, a pioneering study of genetics using fruit flies, contributing to efforts to find cures for human diseases like pancreatic cancer and diabetes. Haileybury is the first school in Europe to participate in Stan-X, working on university-standard research, alongside

scientists at Stanford University and the University of Oxford.

Existing Stan-X partnerships' research findings, co-authored by pupils and instructors, have been published in peer-reviewed science journals and presented at international meetings. Similar outcomes are anticipated from the Stan-X partnership with Haileybury.

*Below: Pupils carry out real world research activity as part of the Stan-X project, in partnership with Stanford University*



An architectural rendering of a modern research building interior. The space features a high ceiling with a complex wooden slat structure. Large windows on the right side provide ample natural light, which is reflected on the polished floor. In the foreground, there are several white, modern chairs arranged in a semi-circle. In the background, a person is standing near a desk, and another person is walking. The overall atmosphere is bright and airy, with a focus on natural materials and open space.

*“Rather than learning science,  
our pupils will become scientists”*

We must invest  
**£15m**  
in the SciTech Centre  
to make this  
innovative building a reality

*Visualisation of the  
Upper Floor of the  
Research Building*

# SciTech will impact all our pupils

The curriculum at Haileybury is designed to be progressive and innovative, yet we must be aware of the foundations on which our education develops. SciTech provides a wonderful manifestation of this: the Baker Building representing scientific heritage and the works of the past, and the new research hub representing the innovation and technology of the future. Both are essential components in the education of our girls and boys.

The development of SciTech will allow pupils to understand and construct their learning in an entirely different way. Rather than learning science, they will become scientists; rather than learning about computers, they will become programmers, builders and designers. This approach, in many ways, is a template to be replicated across the rest of the school: we want all of our girls and boys to understand themselves as learners, and to imagine themselves as subject specialists. This is exemplified through our growing network of established links with universities and higher education institutions: we want our pupils to learn from, and with, the very best, during the school years where

foundations of distinguished careers, such as scientists, are laid out.

Science and technology is a core part of our educational offer for all pupils to age 16: it is also a core part of the curriculum for those taking the IB. The sciences and technology are hugely popular subjects at A Level, with equal numbers of girls and boys opting to take the subjects. Therefore, the construction of SciTech will impact the learning of every single pupil in the school, either directly through their curriculum or through the thinking and academic discourse that it will provoke.

## Haileybury Alumni in the field

**James Quentin Stafford Fraser**  
Computer scientist and entrepreneur.  
Created the first webcam.

**Richard Ambler**  
Molecular biologist, who carried out ground-breaking research into the evolution of antibiotic resistance bacteria.

**Alex Blakesley**  
Mechanical design engineer for University College London, re-designed CPAP machines for COVID-19 patients.

# Haileybury Turnford outreach

We are the sole sponsor and partner of an improving academy, Haileybury Turnford, whose pupils continually benefit from Haileybury's facilities and will also benefit academically from the SciTech facilities.

*"Our partnership with Haileybury continues to be of great importance for Haileybury Turnford students. It raises their aspirations and provides opportunities that they would simply not otherwise have. It enables them to develop their intellectual curiosity further, providing the potential to enrich their knowledge and skills within the sciences as well as developing their self-confidence. I am very much looking forward to Haileybury Turnford students being able to use the SciTech building. Having learning experiences at Haileybury makes a real difference to them."*

Robin Newman  
Principal, Haileybury Turnford

*Right: Support for Haileybury Turnford and its Science curriculum will be significantly enhanced through access to the SciTech Centre*





*“A truly inspirational environment”*

Charles Pupil

The Scitech Centre  
will provide

**20**

new teaching spaces,  
all interconnected and  
equipped with the  
latest communications  
technology, for subjects  
ranging from biology to  
computational science

*The spaces in and  
around the Courtyard  
and Cloisters, flooded  
with natural light,  
will be ideal for  
informal meetings  
and interaction*

# Funding needed

*Your support is greatly valued and as a member of the Haileybury community we will work to recognise and celebrate your contributions*

*Opposite, top:  
Cross-section through  
Courtyard and Cloisters  
looking West, with the  
Research Building on  
the right;  
Opposite, middle:  
Ground Floor  
Computational Science;  
Below: South Elevation*

We are very fortunate to have some capital reserves, however, if we rely on these alongside our yearly financial surplus it would take us 30 years to achieve the first three phases of our Masterplan. If we raise funding philanthropically, we can dramatically reduce this to 10 years, enabling us to invest in future generations sooner.

We must invest £15 million in the SciTech Centre to make this innovative building a reality.

## **How you can help**

There are many options for supporting the campaign including one-off gifts

such as buying a brick at £50 and beyond, regular giving and legacies. All donations of any size will be gratefully received. We hope that you can find an appropriate level to give at, so that we can collectively show support.

It is important for us to outwardly show our appreciation for all donations made towards this project. We will do this in several ways, from naming rights and opportunities to supporter boards.

For more information, please get in touch with Amy Ledingham, [a.ledingham@haileybury.com](mailto:a.ledingham@haileybury.com), +(0)1992 706 495







*An aerial view of the entire SciTech Centre development. The Courtyard is in the centre, with the existing Science Block to its left and the Design Technology Building on the right. The Biodome is at top, centre, close to the current Maths Building to the right. College Road runs down the left of this image with Hailey Lane at the bottom*





To view an animated fly-through of the SciTech Centre project, [please scan the QR code](#).

For more information, please get in touch  
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