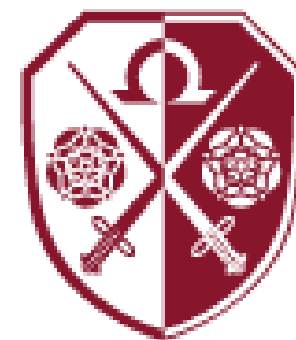




**EAST  
BARNET  
SCHOOL**



*"I want to learn"*

*I want to learn....* **STEM**

**Sept 1971** - East Barnet Grammar and John Hamden School merged to become East Barnet School.

In the late 90's, the school was bulging at the seams and despite the limitations of the crumbling buildings the school's excellent reputation continued to grow and such was its popularity with the community that the school was regularly over-subscribed.



**1998**

Nick Christou takes over as Headteacher.

School motto becomes, “I want to learn”.

**2005**

The school is designated as a Technology College securing extra funding for IT. Science and Technology Departments.

## A curriculum for the most able through searching self-evaluation: East Barnet School

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*The school promotes enhancement, enrichment and extension as the norm in Key Stage 3 through its **‘triple-e’ curriculum** offer:*

*For two afternoons each week during Years 7 and 8, students follow modules of four to six weeks of a ‘learning through inspiration’ programme.*

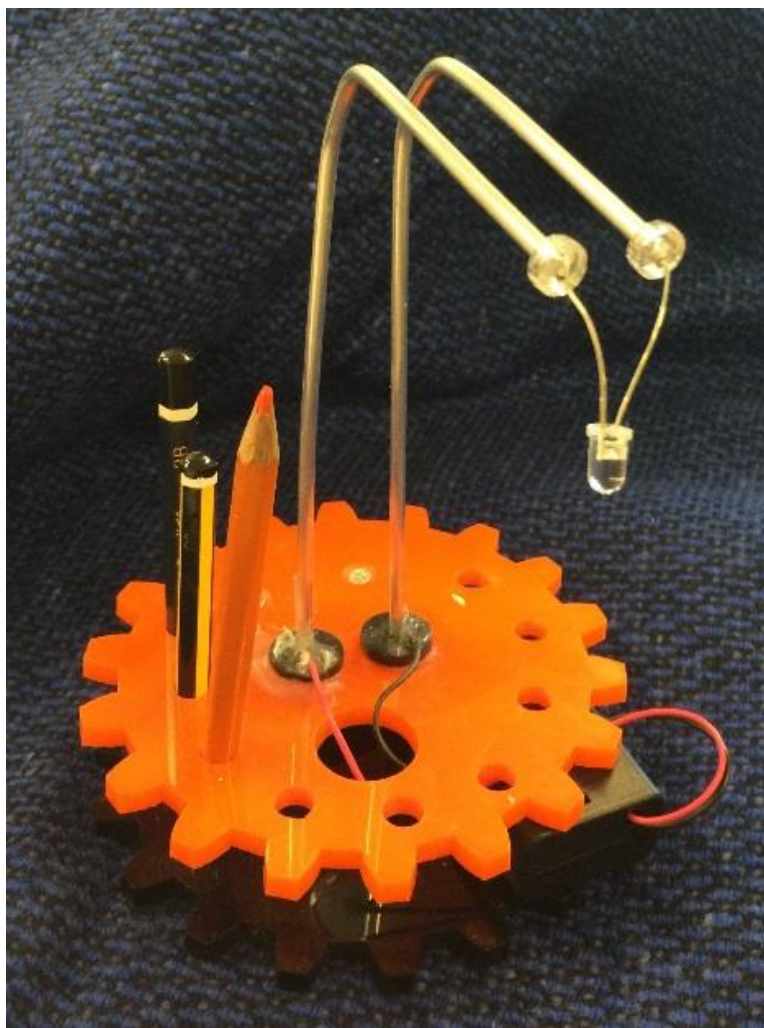
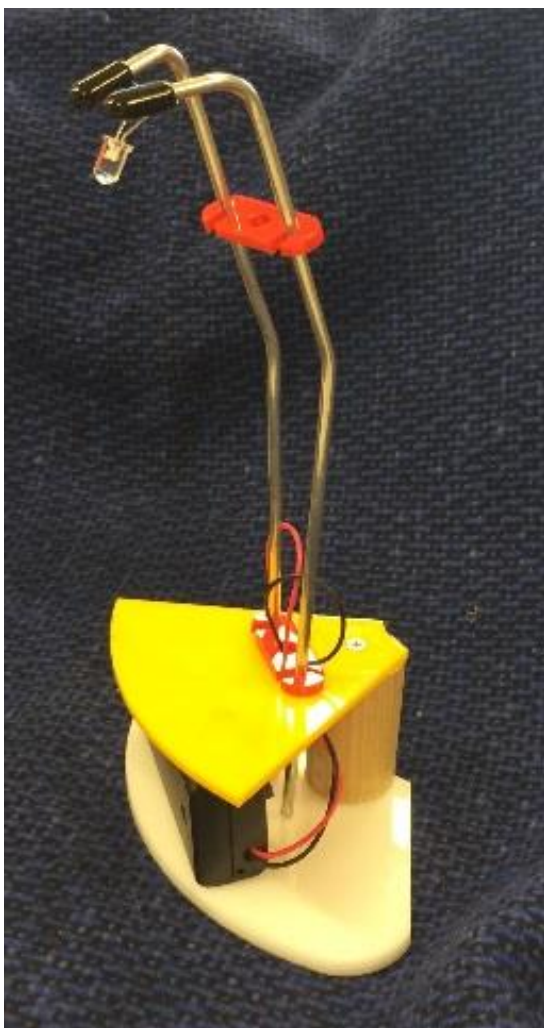
**EEE school** projects include

Students use STEM materials in a variety of creative ways to make Kaleidoscopes and Periscopes, Enigma coding machines, tangrams and ukuleles.

Students learn how to build and program simple crumble robots to complete ever increasingly difficult programming challenges.

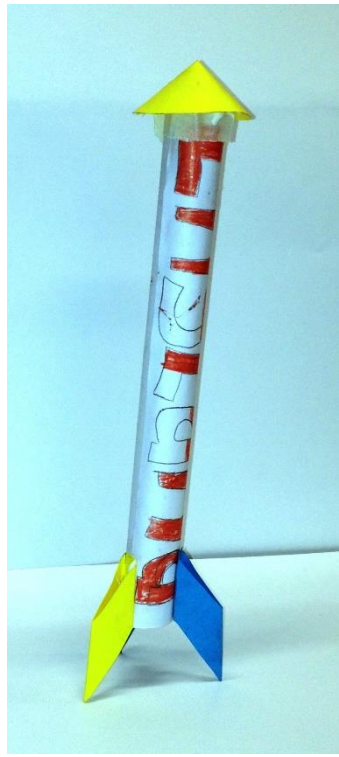
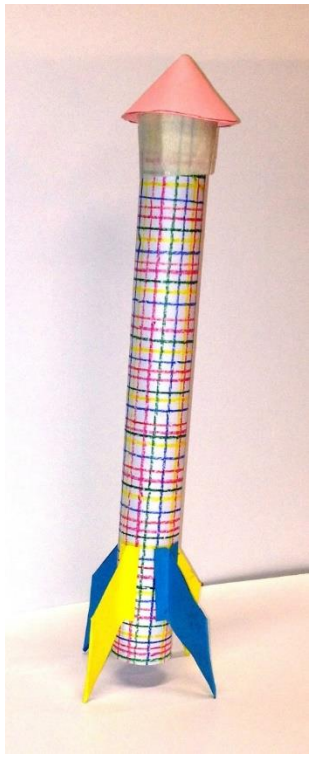
Students are divided into teams in order to learn to program autonomous Lego EV3 robots.



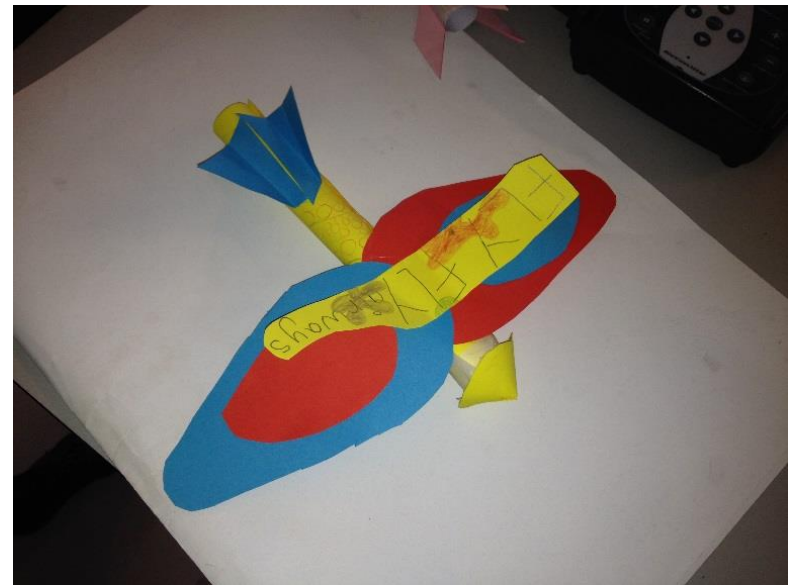
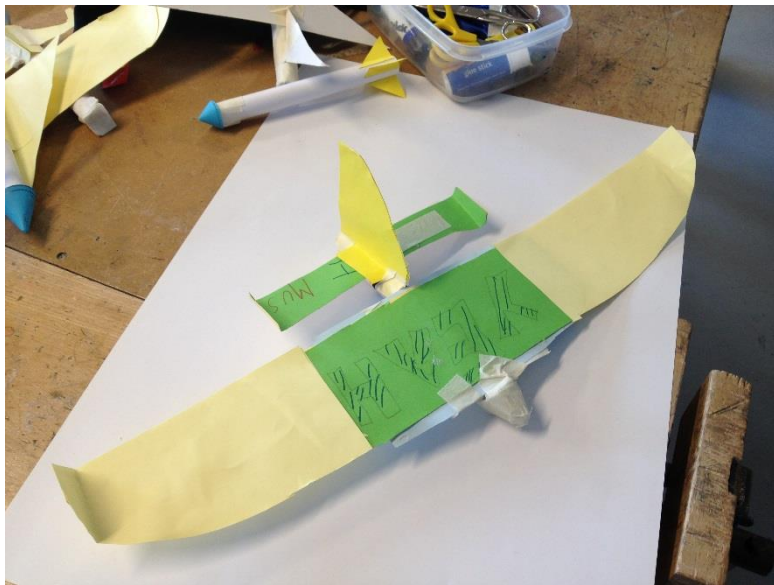


LED lamps





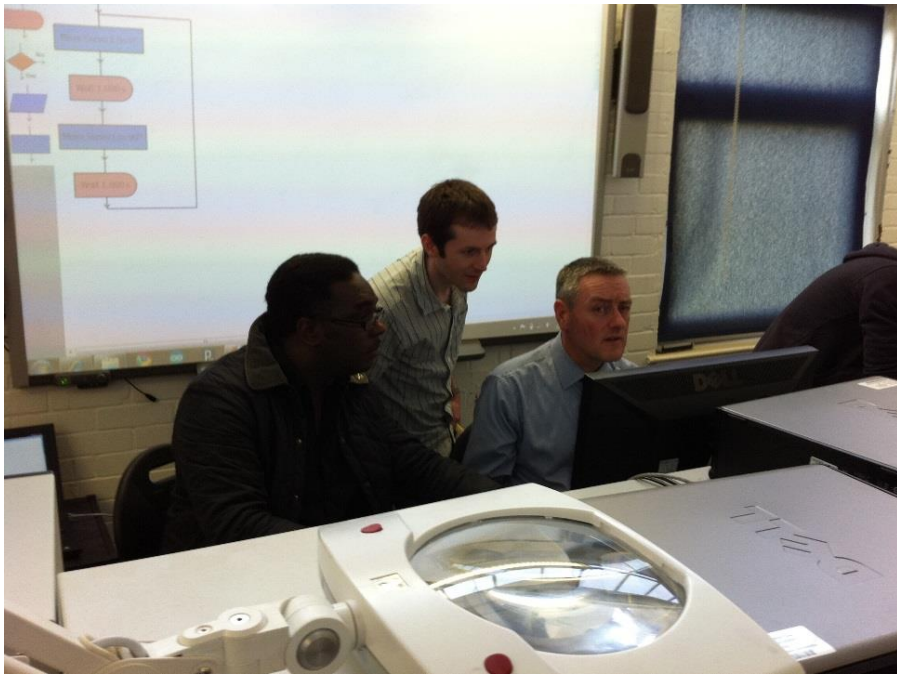
Students design, make and test rockets and kites in the theme of Flight









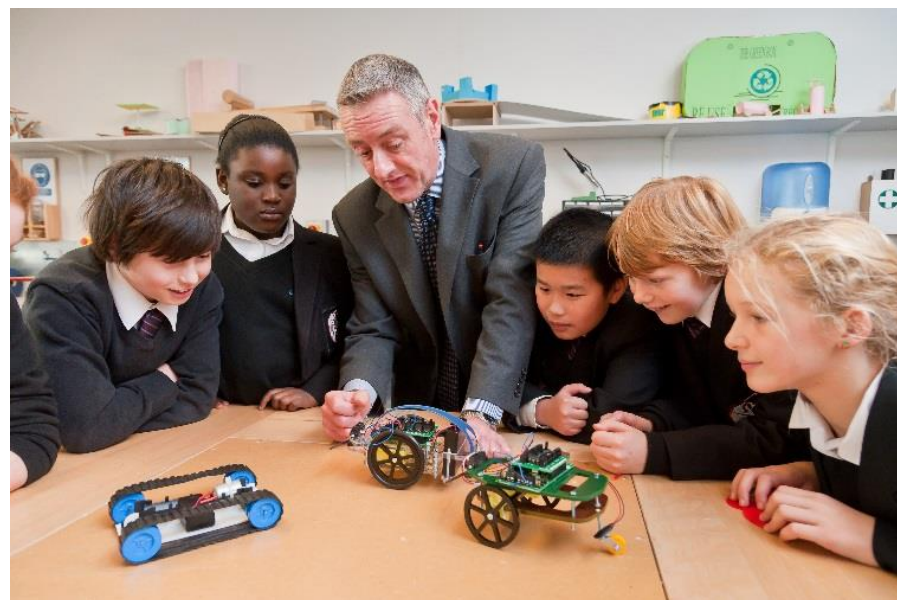
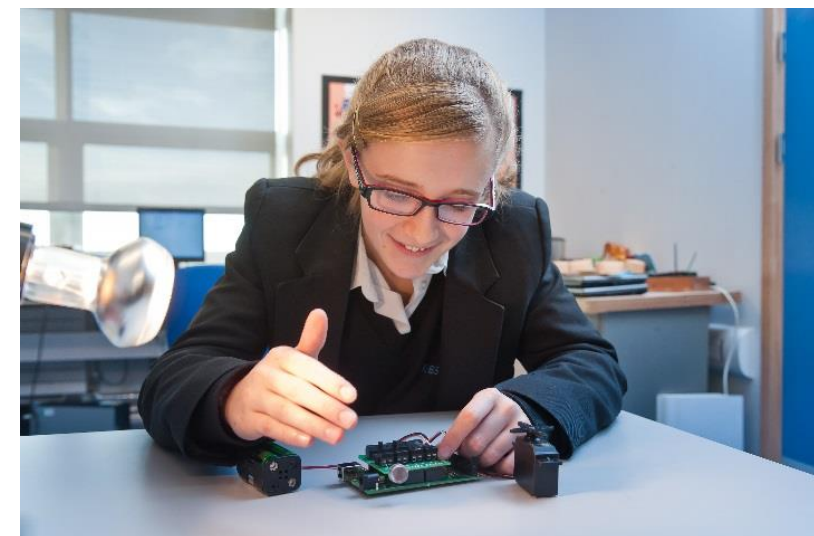






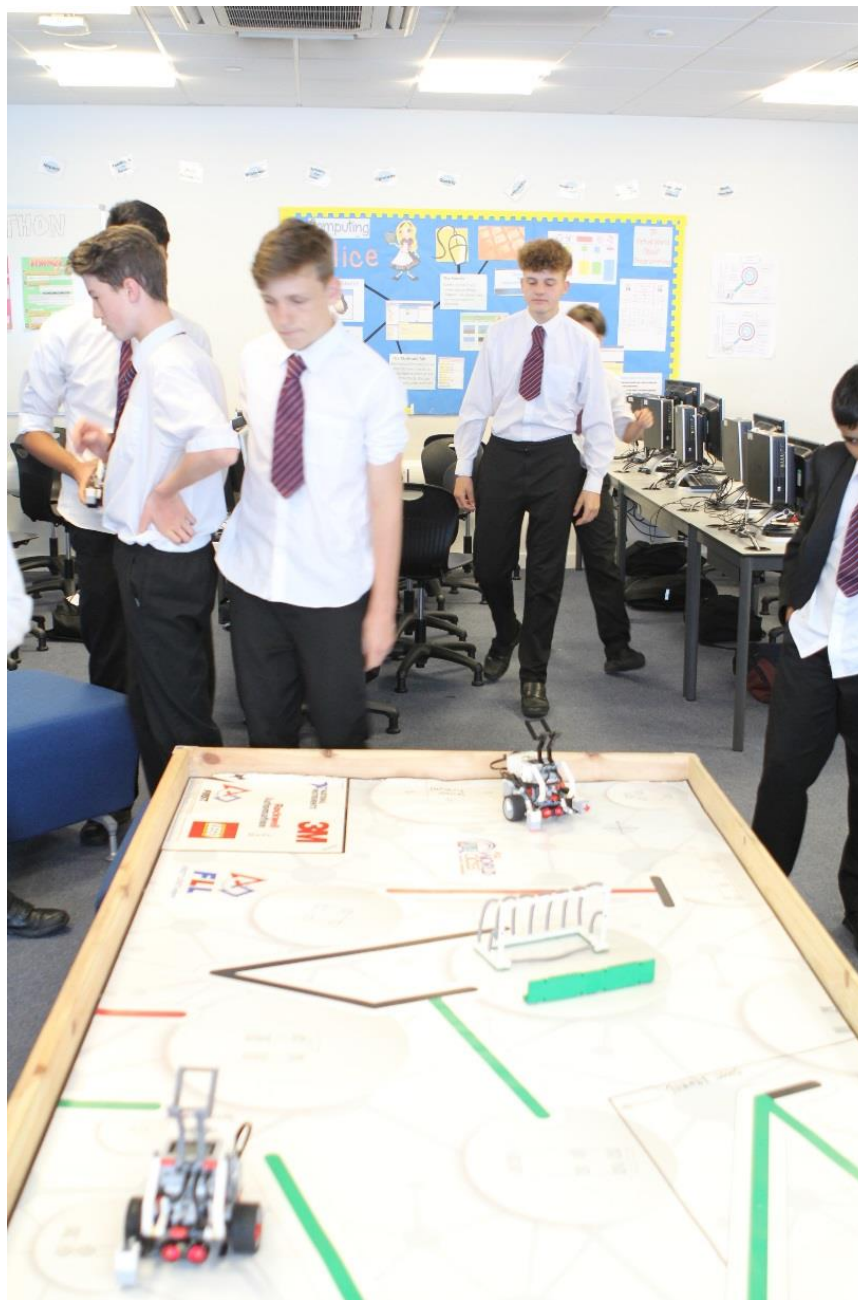
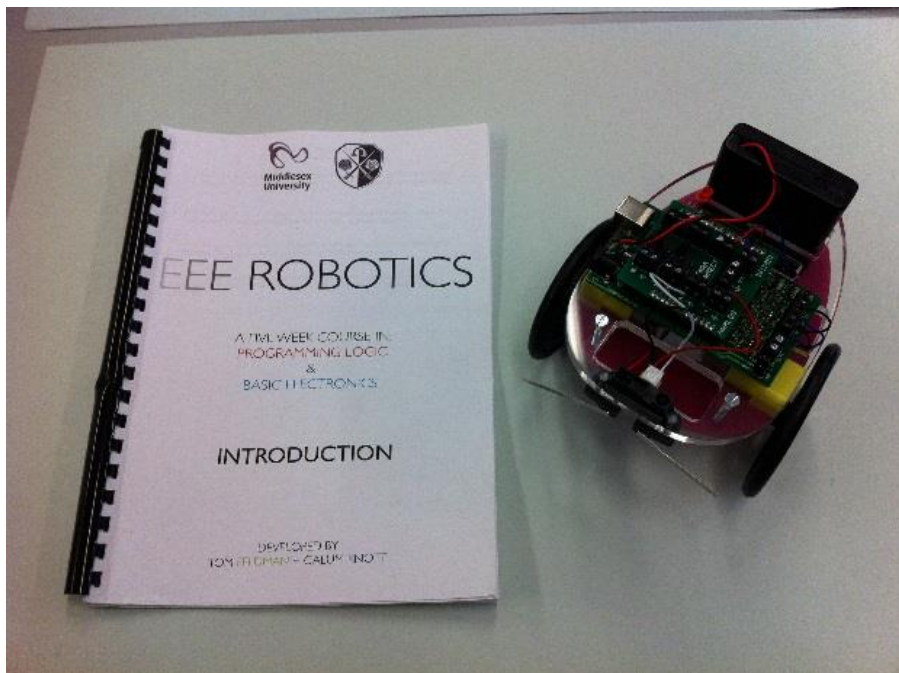


**EBOT development**



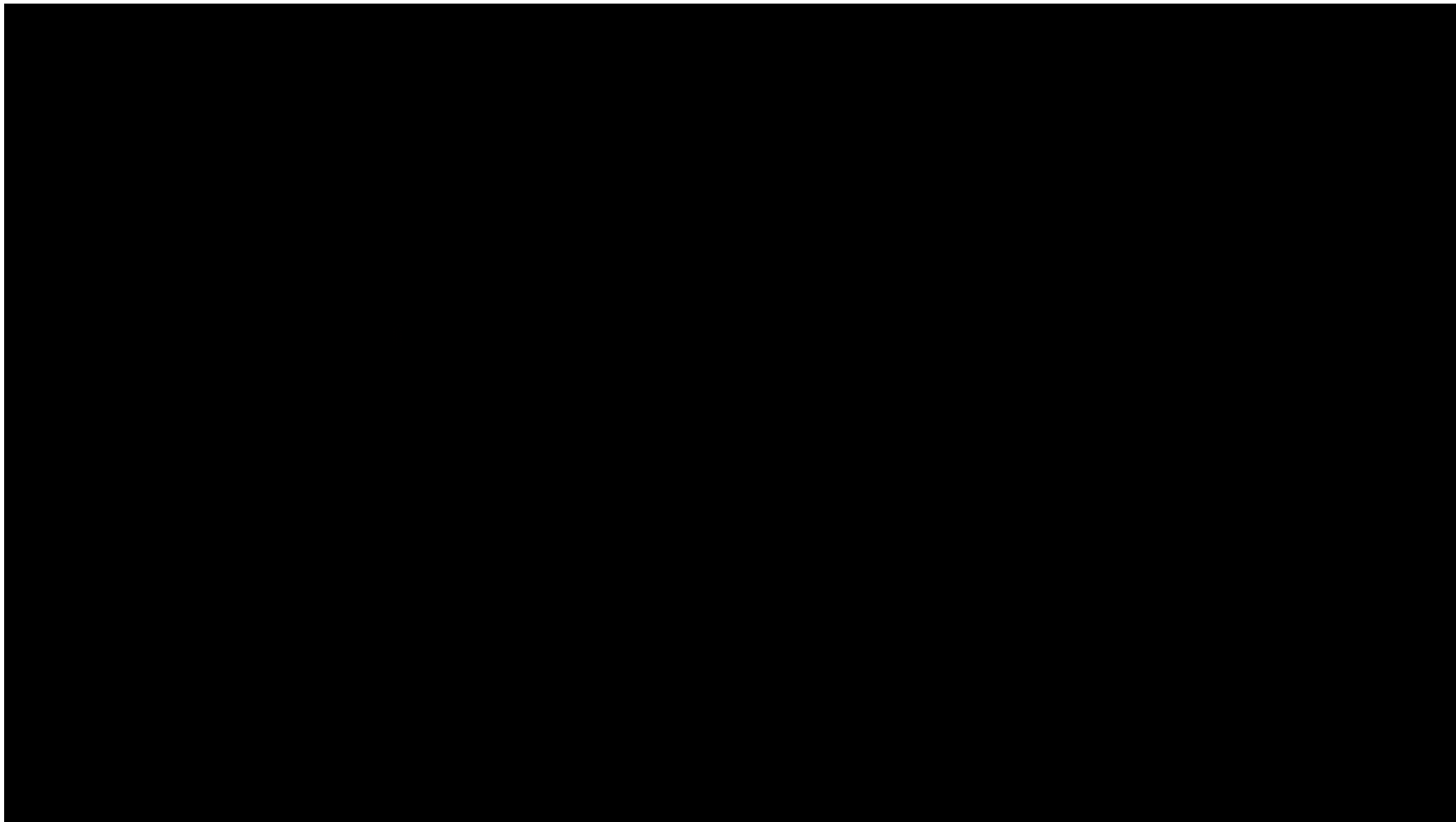










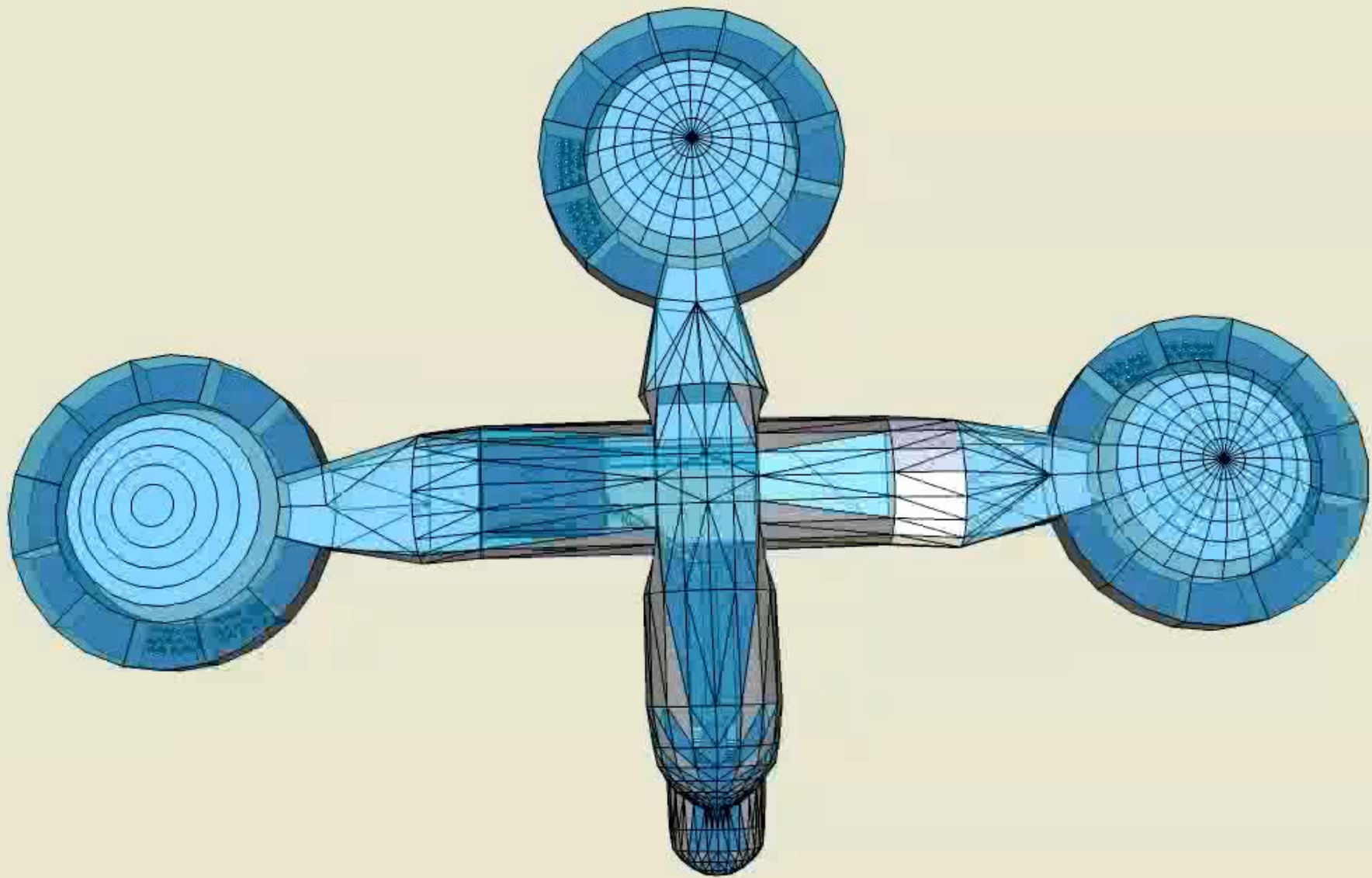




**2007** we obtained planning permission for a new '21st Century' state-of-the-art building.

Design Team plan presentation to architects











# 2008

EBS is designated a “High performing Specialist School”

Approved as a Leadership Partner School

Design Team start work on Project Faraday – part of a government initiative to improve science learning

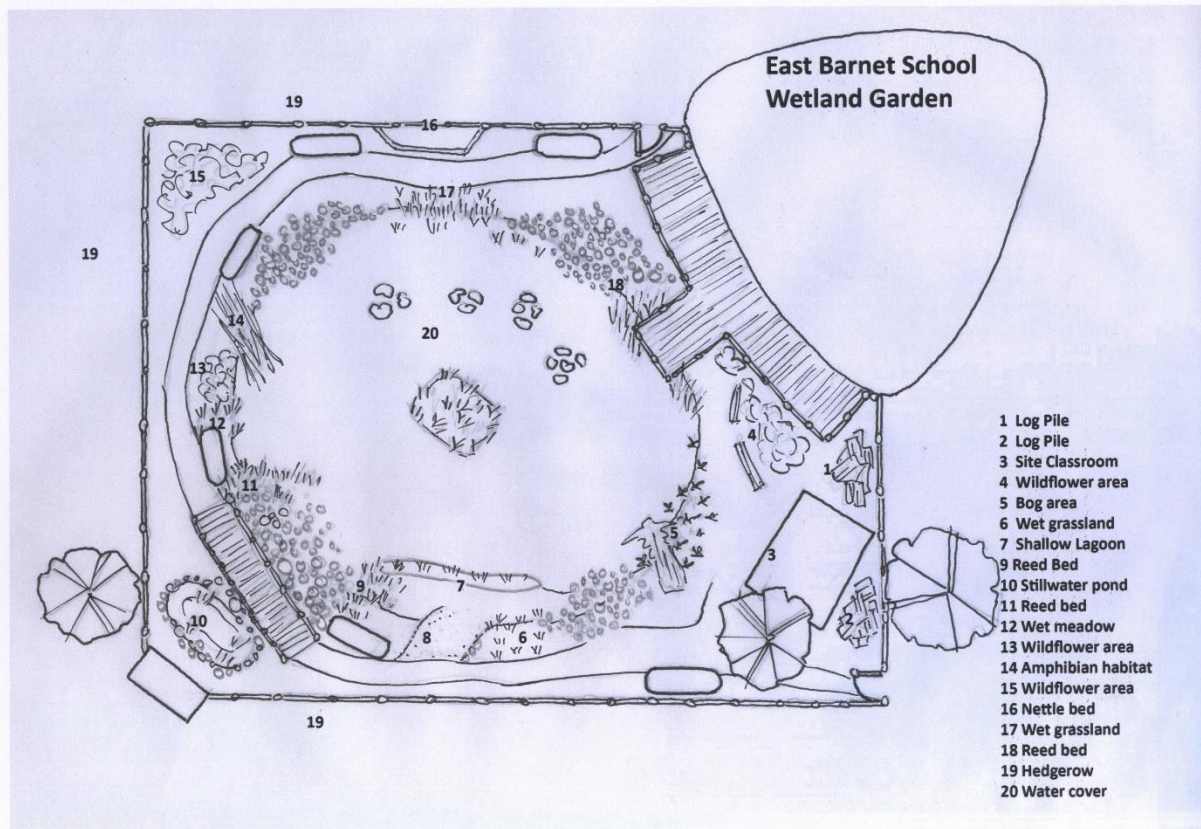




# Faraday Project

## Robot Labs





# Faraday Project

## Wetlands

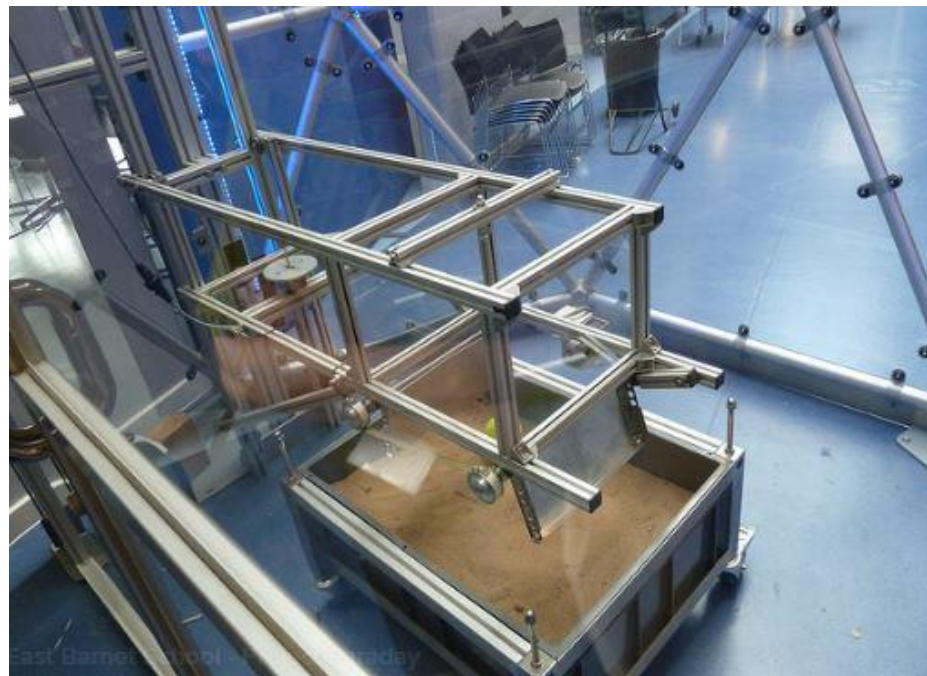




**Faraday Project**

**60 year clock**





# Faraday Project

## Drop Zone

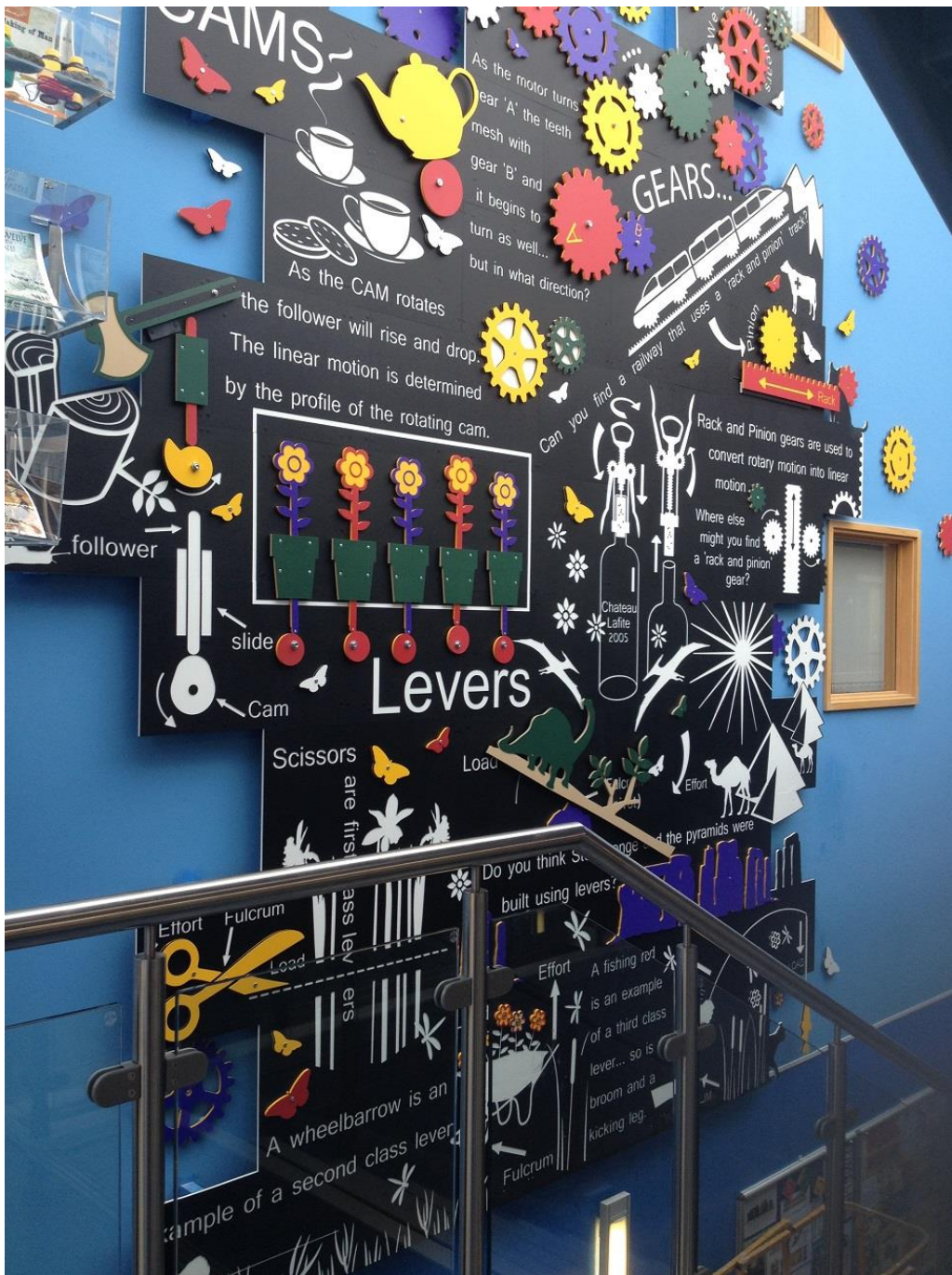






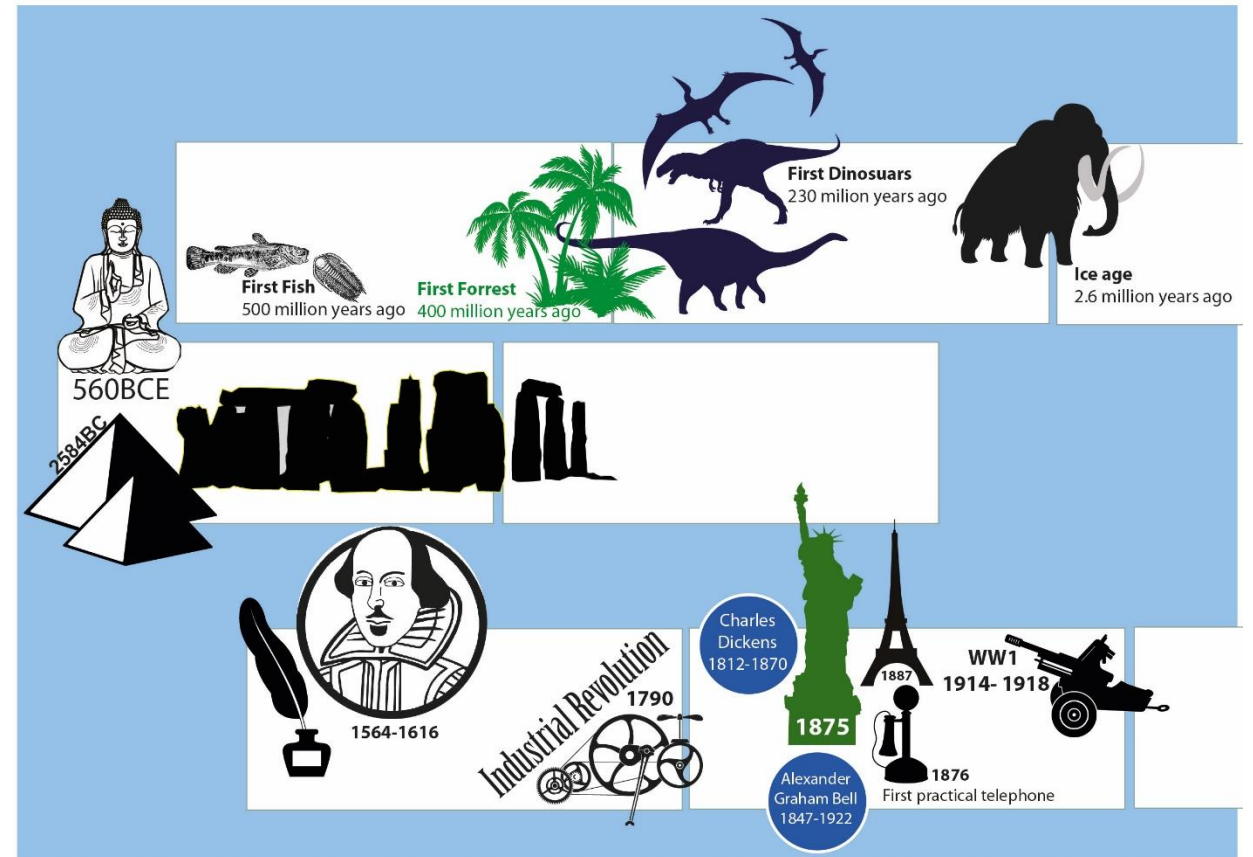






# Wall of wonder

## Historical time line



*Top figures in their field provide lectures for the most able students to raise their awareness and aspirations of what they might be able to achieve.*

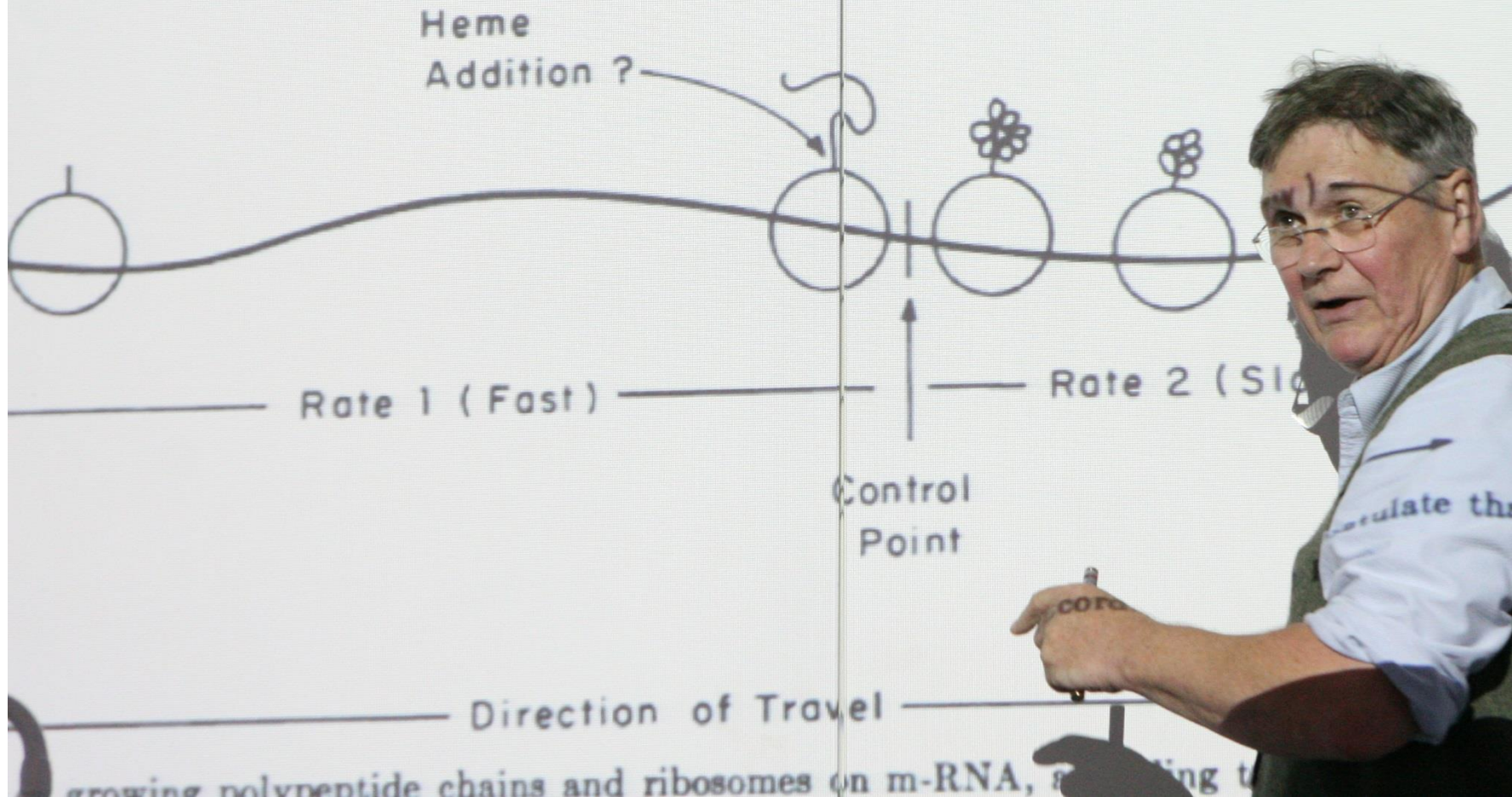
*Recent lecturers include: the Director of the BBC, the American Ambassador to the UK, the Astronomer Royal and a large number of university professionals who are experts in their field.*



# REAT SCIENTIST IS MISTAKEN!

**Dr Tim Hunt**

*and Robert M. Winslow*





Steve Jones





Sir Alec Jeffreys



Genetic fingerprinting  
past, present and future

Alec Jeffreys



University of  
Leicester





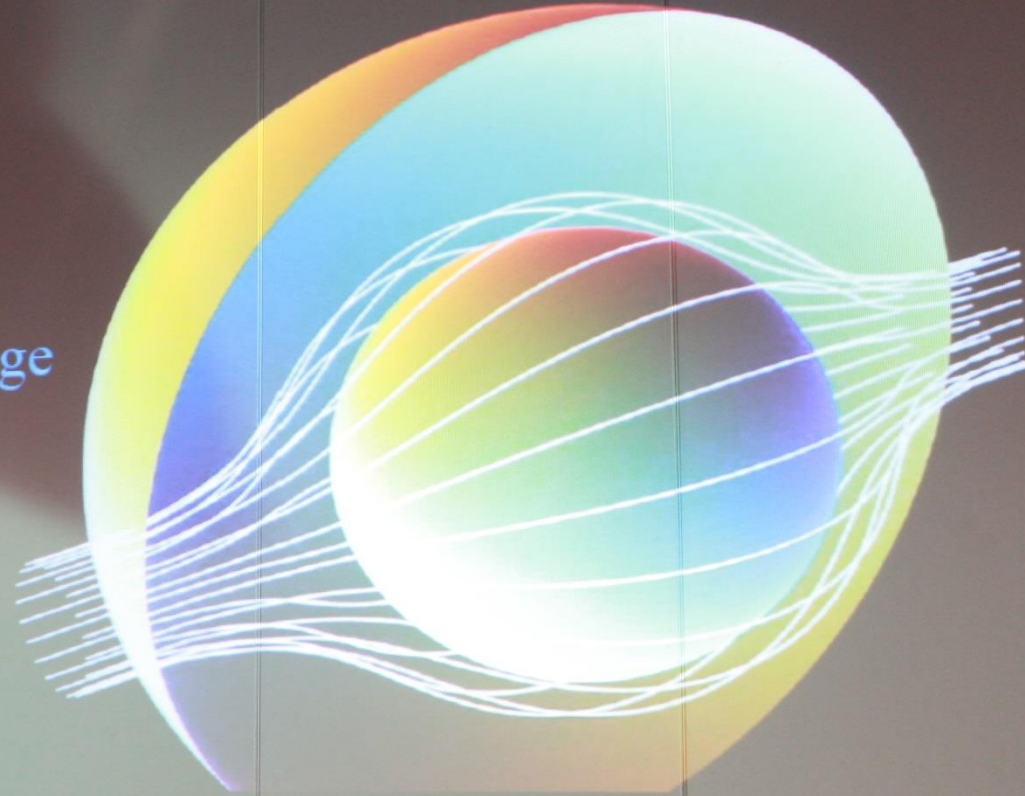
Lord Rees





# The Science of Invisibility

John Pendry  
Imperial College  
London



**Prof John Pendry**



# Prof James Crabbe





# Matthew Tosh



## Airframe noise sources



Demo - cavity and undercarriage noise

The  
Cambridge-MIT  
Institute

21<sup>st</sup> June 2012



**Prof Dame Ann Dowling**

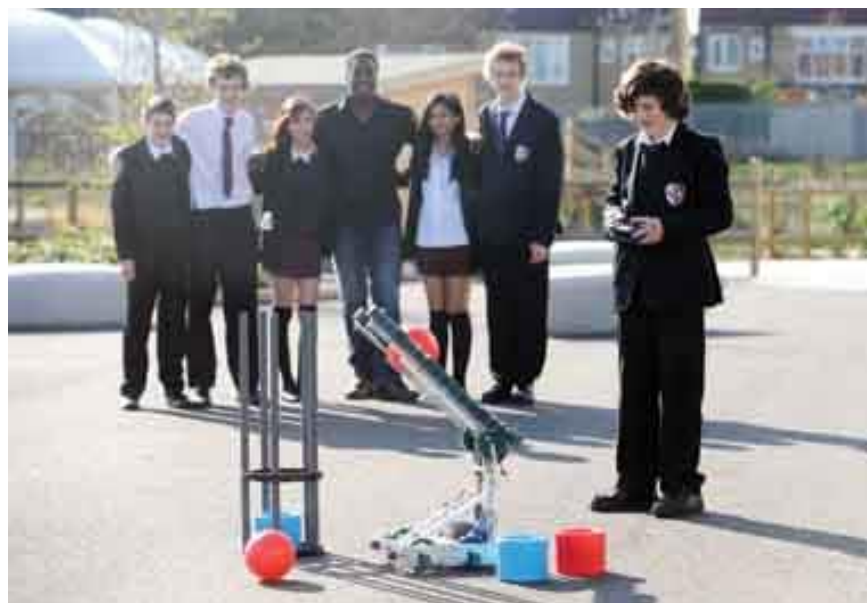


**Sir Richard Friend**















Hello, my name is Dominic Vald and I am a twelve year old programmer in the Vex IQ team, Flash Robotics, from a state school called East Barnet and **I am the first kid in the UK ever to win the Robot Virtual Worlds Competition for Vex IQ.**

This means that my robotics team have now got a place in the international competition being held in America.

*The most able mathematicians are used as 'maths leaders' within local feeder primary schools to deliver mathematics programmes including current Level 6 work for the most able primary pupils.*

*The school is a national leader in the development of robotics. The most able students in Years 9 to 13 gain exceptional expertise in designing and building automated devices using industry standard software.*

*Students regularly win national competitions and one disadvantaged student involved in the robotics programme achieved a place at Oxford. Two teams represented UK schools in the international robotics competition in California.*



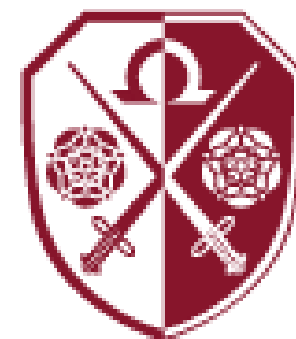
**What do students want to learn?**

**How do they want to learn?**

**Do they have a say in how this happens?**



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