



STEAM

SCIENCE, TECHNOLOGY,
ENGINEERING, ART AND
MATHS

AUTUMN 2017/18

St Ambrose Barlow RC High School & Sixth Form College

A National Teaching School

A National School of Creativity

NEWS & EVENTS

AUTUMN 2017/18

BLETCHLEY PARK

Students from Y10 were invited to take part in the Bletchley Park program. They took part in activities to explore mathematic skills for code breaking.

The first activity was based here in school where an Enigma machine was brought in for students to look at in use and carried out simulated code breaking challenges. The second activity was a visit to Bletchley Park itself. Students had the chance to explore the museum, and go to the iconic code breaking huts.

THE HOUSE OF LORDS

Three of our ex-students presented at The House of Lords on 27th September, where they discussed their journey's into the Built Environment. Lauren Cunningham, Brad Lees and Daniel Bateson presented with passion and maturity beyond their years. Lauren and Brad have also both recently been shortlisted for North West, and National, Apprentice of the Year, respectfully.

TEENTECH EVENT

Year 9 pupils participated in events with scientists, engineers and a wide range of organisation from an industrial background including the NHS and Lang O'Rourke.

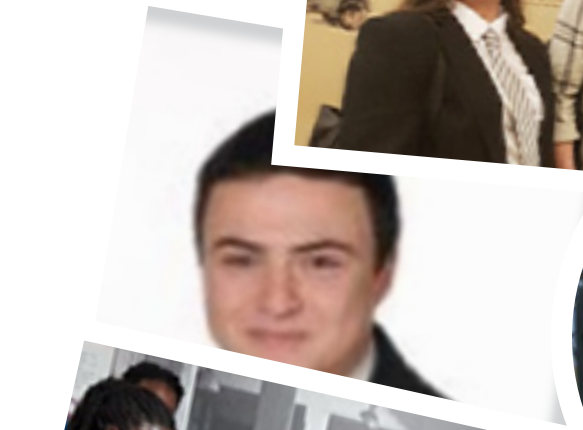
Activities including analysing volcanic rocks, 3D experiences of MRI scans, website design and using Oculus to experience construction sites under development through virtual reality.

A-LEVEL FILM STUDIES EDUCATION VISIT - ODEON MANCHESTER

On 15th December 2017 Year 12 A-Level Film Studies students attended the showing of Star Wars: The Last Jedi. The educational visit was to relate micro-technical elements such as sound, cinematography, editing and film aesthetics into 21st century film'

SPONSORED DEGREES

Great news as some of ex-students have been successfully placed on sponsored degree programs. Sam Foster has won a prestigious grant from the Institute of Civil Engineers and is now studying Structural Engineering in Newcastle. Daniel Bateson and Luke Steedman have also began their undergraduate degrees in Civil Engineering through Laing O'Rourke's Cadet Programme.



FUTURE OPPORTUNITIES

UPCOMING EVENTS

If you would like to get involved in attending, supporting or delivering any of the below events please contact Mr McDonagh or the relevant teacher.

SCIENCE/ DT CURRICULUM DEVELOPMENT

Teachers are integrating Engineering Habits of Mind and TEM1 to form a SAB approach to STEAM. Outreach STEAM projects with our feeder Primary Schools are planned for the summer term, starting with Christ the King RCPS. Further development of an integrated curriculum for DT/ Science will continue into next year.

SIXTH FORM WORK EXPERIENCE

Currently 8 of our sixth form students have secured work experience placements for the new year. These include places with AEW Architects, Kier Construction, Civic Engineers and Laing O'Rourke. Hopefully these will lead to further opportunities for the students.

STEAM FOCUSED ACTION RESEARCH

A number of teachers from St Ambrose will be conducting action research projects linking STEAM subjects. This research will be on-going across the school year and aims to develop the STEAM curriculum and pathways for our pupils and feeder Primary school pupils.

DEC BREAKFAST CLUB

All Level 2 and 3 DEC students are invited to attend Breakfast Club on Wednesday and Friday mornings to work on their coursework. It's an informal and relaxed way to catch up on any work and toast is provided.

ICE/ ST AMBROSE BRIDGE DAYS: PRIMARY OUTREACH

30 pupils from each of our 6 feeder primary schools will be attending St Ambrose later this academic year. The pupils will be applying their knowledge of engineering, which they learnt through a four week Scheme of Work produced by ICE and SAB, to build a 17m cable bridge. The pupils will have to construct the bridge in teams and then test its strength by walking across it!





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