

Below are some of the STEM activities we have delivered in lessons to widen interest and enthusiasm for Science, Technology, Engineering and Mathematics:

STEM CLUB- technology/ science KS3 cohort – once per week

Science Club - technology/ science KS3 cohort - once per week

VEX ROBOTICS – KS3 and Post 16 learners – weekly

VEX ROBOTICS EVENTS – Host school for inter-school challenges – Oct and July 2014/15/16

LEGO MINDSTORMS – technology / ICT – once per week -entry to annual competition 2013 and 2014

Comic Club – ICT KS3

SCRATCH - ICT – Intro Y7 and then in Y9 curriculum

Computer programming – Logo, V Basic, Python – Y7 and Y8 / Y9 curriculum

Computing—Hardware, software, input/output devices, Binary, networks embedded in ICT teaching

Science Made Simple – presentation to all Y9 cohort

Coventry University – Wizz Bang, annual interactive science presentation - all Y7 cohort

Science Annual Event to promote active exploration – KS3

Planetarium experience from Coventry University hosted here – Y10 cohort

Tomorrow's Engineers - series of one-off engineering challenge workshops for Y9 cohort

Y10/ Y11 Engineers – links with Undergraduates as mentors from Coventry University

Higher Attaining learners KS3 Engineering club – weekly

Post 16 links- Coventry University – science dept. maths master classes,

Post 16 links with ex-student at Coventry University...presentation – what is the nature of an Architecture degree and career pathways

JLR – Jaguar Land Rover Ltd. - Design Post 16 visit to Castle Bromwich for industrial awareness of a modern manufacturing plant

3D Printing CAD/CAM project linked with Warwick University. for Pupil Premium learners – weekly Y7 class for 2 terms.

Mathematics on-line software for KS3 identified learners– My Maths

SAM Learning, GCSEPOD for KS3, KS4 dedicated exam preparation / revision

Technology Conference – Warwick University – Prospective A Level D&T Students.

Technology Great Egg Challenge – Y9 PP students.

Textiles Master Class – Coventry University – Identified Y9 students following GCSE Textiles.

Y12/13 Physics trip to CERN in Switzerland to visit the Hadron Collider, Einstein Museum and House.

Y12/13 Warwick University Lecture on science research (Chemistry)

Y12/13 Lab days at Warwick University focusing on analytical chemistry

Y12 Lab days at Coventry University for Biology, Chemistry, Forensics students

Y9 reward trip to Cadbury World

Factory tours to JLR and Cadbury World – Post 14 and Post 16 - D&T, Business Studies and Science depts.

Undergraduate student – Architecture Degree – presentation to post 16 Product Design students.

STEM Ambassadors – school regularly hosts training events.