



Science Faculty (Biology, Chemistry & Physics)

STEM activity	Year group
Science club	Year 7
Bronze CREST (10 hours)	Year 7
Silver CREST (30 hours)	Year 9
Engineering Education Scheme (EES) / Gold CREST (50 hours with STEM ambassadors); includes trip away	Year 12
Biology Challenge (online)	Year 10
Biology Intermediate Olympiad	Year 12
Biology Olympiad	Year 13
Cambridge Chemistry challenge	Year 12
Chemistry Olympiad	Year 13
Physics Challenge (online)	Year 10
Year 11 Physics Challenge	Year 11
AS Physics Challenge	Year 12
Physics Olympiad Round 1	Year 13
Secondary Engineers Leader Award	KS4
External speakers with Bio Soc and Phys Soc	All
Reviewing entries to essay competitions for RCSU Science Challenge and Newnham College Essay competition	Sixth Form
Nuffield Placements	Year 12
GSK placements	Year 12
Sci Challenge	Years 7-11
Arkwright Scholarship	Years 11-12
Go-4-SET	Year 9
Electronics Club	Years 7-8
Textiles Club	Years 7-8
National Science Week	Years 7-9 (Year 12 help)
International Women in Engineering Day at Ford (June)	Year 9
IET Faraday Challenge (ARU, January)	Year 8
Chelmsford Science and Engineering competition (June)	Various



Mathematics Faculty (Maths, Computer Science & Economics)

STEM activity	Year group
Origami Club	Years 7-8
Junior Maths Challenge	All Year 8 and 20 Year 7
Junior Maths Challenge Kangaroo	Years 7-8
Intermediate Maths Challenge	All Year 10, invitations for some Year 9 & Year 11
Intermediate Maths Challenge Kangaroo	Years 9, 10 and 11
Senior Maths Challenge	Years 12 and 13
Senior Maths Challenge Kangaroo	Years 12 and 13
Team Maths Challenge	Years 8/9
Maths Soc	All years
G&T Extension Club	Year 11
Year 11 Masterclass	Year 11
Primary Project (Years 4-5 pupils)	Year 12
G&T Primary Project (Years 4-5 pupils)	Year 12
National Cipher Challenge	Years 8-10
Young Enterprise	Year 12
Dragons' Den product design	Year 10
Economics and Politics Society - focus on impact on STEM activities	All years
The Bebras Challenge	Years 7 and 8
Cyber First	Year 8
Cracking the Code	Years 7, 8 and 9
BAFTA Young Game Designer	All years
Digital Makers	Year 7 and 8



Enrichment Days, 2018-19

Enrichment Day		Year group
ED1	Chemistry Forensics Day (new)	Year 9
ED2	Maths Challenge	Year 7
ED3	Scrapheap Challenge	Year 10
ED3	Maths Masterclass	Year 11
ED4	Biology Field trip (ecology focus)	Year 8
ED5	Discovery CREST (Science) Day	Year 7