







Maths in Science Days - Programme

2 April 2022 – Cheshire College South & West 3 April 2022 – Xaverian College

The Maths in Science workshop is for **Year 12** students from the North West of England, who are considering a career in science, particularly those thinking of studying a science degree in higher education. Hands-on exercises will be used to show how important maths is across the whole spectrum of science, with the exercises covering topics in biology, chemistry and physics. There will also be a chance for students, and their parents/carers, to meet with the workshop leaders to discuss careers in science and transitions to higher education.

The requirement for students is a grade 6 in GCSE maths. Students should also be studying mainly science A-levels.

Schedule:

10.30 – 11.00	Arrival/refreshments for all attendees.
11.00 – 11.10	Welcome and Introduction.
11.15 – 12.45	Workshop 1: Calculus methods. Design of a radiochemistry labelling molecule synthesis for cancer treatment.
12.45- 13.00	Early career researcher presentation: Alex Sheader – "Why I chose research."
13.00 – 14.00	Lunch [bring a packed lunch]
14.00 – 15.30	Workshop 2: Statistical methods. Planning a clinical trial for a testing a new pharmaceutical. Calculating the design stress for a ceramic component for a jet engine.
15.30 – 16.00	Break/refreshments and parent/carer/teacher arrival.
16.00 – 16.30	Martin Christlieb / Pete Nellist / Alex Sheader: "A career in science." [This talk is open to parents, carers and teachers; an opportunity to meet and learn about careers in research science.]
16.30 – 17.00	Final discussion and departure.

Presenters:

- > Dr. Martin Christlieb (Department of Oncology, University of Oxford). *Martin has worked in the fields of Chemistry and Oncology, including at the Universities of Cambridge and Oxford.*
- Prof. Pete Nellist (Department of Materials, University of Oxford). Pete is an electron microscopist and has worked at the Universities of Cambridge, Birmingham, Trinity College Dublin and Oxford.
- Ms. Alex Sheader (Department of Materials, University of Oxford). Alex has recently completed her D Phil (PhD) at Oxford and did her undergraduate degree at St Andrew's University.

Click here to apply now!

Deadline extended: Monday 28th March, 11pm.