

News for Schools

The University of Manchester teacher's newsletter



Gateways learners participating in some group work at the Manchester Museum

MANCHESTER GATEWAYS PROGRAMME

MANCHESTER
GATEWAYS

"Winner of the Widening Access Initiative Award 2014"

The University of Manchester Gateways Programme is the University's flagship Pre-16 Widening Participation initiative which targets local learners in Years 7-11 who are statistically less likely to progress to university for a variety of reasons. It delivers a coherent and progressive series of subject enrichment and Higher Education awareness activities, as well as providing important information, advice and guidance (IAG) on different potential HE course choices and careers. The 45 Greater Manchester schools participating in the programme are given the opportunity to attend campus visits with a small number of talented learners who have the ability to progress into Higher Education.

New Academic Year

Year 10 Exploration Visits

To begin the series of events taking place over the course of the academic year, the programme kick started with its first set of Year 10 Exploration Visits. The Year 10 days concentrated specifically on transferrable skills and how these are relevant to and link into different careers and studying a degree course at university. The learners were able to consider their future options by exploring the various progression routes into careers and courses by taking part in a Journey through

Education' activity and researching university courses of interest to them in prospectuses. As the location for the day is the Manchester Museum, the students also experienced learning at university as an entirely different concept as students had the opportunity to take part in an academic workshop on gallery using the Museum artefacts and collections. This academic session helped develop their knowledge and interest in STEM, Medical Human and Life Sciences or Humanities subjects taught at university in a hands-on and interactive setting.

Year 11 Skills for Success Visits

The Year 11 day focuses on improving learners' awareness of university learning styles through completing a group research enquiry into a topical issue. This provides pupils with the opportunity to experience the group and independent studying nature of teaching and learning at a research-intensive and selective university like Manchester. This year, the topic for the day is the 'Rio Olympics', where learners have the opportunity to listen to a short lecture and undertake research to answer questions concerning one of the following subject areas: Environmental Science, Technology and Engineering, Humanities and Health Care. These questions and subject areas then form the basis for a presentation where each group must share their findings with a prize being awarded to the best group.

Date for the diary!

We will be hosting our **Gateways Celebration Event** on Wednesday **8 February, 2017** – all teachers, parents, carers and families, as well as our Gateways learners in Years 9-11, are invited to attend.

More information including timetable and location will be sent out in the New Year but please save the date in your diary for this special event!

Contact: Emma Britain

Tel: 0161 275 8573

Email: gateways@manchester.ac.uk

www.manchester.ac.uk/gateways

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FORTHCOMING EVENTS AND PROGRAMMES

Greater Manchester Higher

Greater Manchester Higher is a collaborative network of higher education providers from across Greater Manchester, who are working together to provide high quality impartial information, advice and guidance about progression routes to higher education (HE) for learners and their key influencers at all state schools and colleges in Greater Manchester.

The network includes: University of Bolton, The University of Manchester, Manchester Metropolitan University, RNCM, University of Salford, Ashton Sixth Form College, Bolton College, Bury College, Holy Cross College, Hopwood Hall, The Manchester College, Salford City College, Stockport College, Tameside College, Trafford College, University Campus Oldham and Wigan and Leigh College. The network is part of the HEFCE funded National Networks for Collaborative Outreach project which delivers

a nationally coordinated approach to working with schools, universities and colleges to help people access higher education.

Our free programme of collaborative activities includes campus visits, in school activities, targeted events for looked after children, disabled learners (including those with learning difficulties, mental health and long-term health conditions) and young carers, and a programme of CPD activity, and builds on previous Greater Manchester Higher activity which some of you may be familiar with.

These are being offered in addition to a number of activities delivered by individual HE providers that are detailed on the website.

Places are still available on our November visit days – a booking form can be downloaded from www.gmhigher.ac.uk.



We endeavour to provide clear access to information about outreach activities offered by Higher Education Providers in Greater Manchester for teachers and advisors through our dedicated website: www.gmhigher.ac.uk which has a searchable database of over 50 free activities offered by our network partners, including campus visits, subject enrichment activities, IAG events and teacher and adviser CPD with new activities being added on a regular basis. Our website also contains resources for teacher and advisers, learners and parents and carers.

www.gmhigher.ac.uk

Humanities Academic Enrichment Events

Throughout the academic year, we run a range of academic enrichment activities for our Faculty of Humanities subjects, including subject insight days. These events are designed to introduce your students to how subjects are explored and taught at University, as well as the research areas our academics specialise in via workshops and presentations. Events for 2016-17 include Insight Days for Politics, Geography, and Law; as well as research days into The Princes in the Tower, and the Trial of Anne Boleyn. For more information on this year's events, please email our Academic Enrichment Officer for Humanities, Emma Britain.

Contact: Emma Britain
Tel: 0161 275 8924
Email: emma.britain@manchester.ac.uk
www.man.ac.uk/gXP0HD

Young Persons' Forum

The Young Persons' Forum engages local young people in the recruitment and outreach activities that we run as a university. We invite local young people (Years 10 – 13) to regular focus group meetings, throughout the school term, to get their views on our activities and materials. This helps us to make sure that what we're offering is informative and relevant to our audience.

Why should your students join the Young Persons' Forum?

- Gain confidence in expressing views and opinions
- Boost communication and teamwork skills
- Learn more about university life and what it offers
- Add something really impressive to their CV or personal statement
- Contribute to the improvement of our activities and events
- Transport and refreshments are provided
- They will also receive a £10 book voucher for each meeting they attend



Here's what some of our members have to say:

"I have definitely learned a lot about university life and found it helpful to socialise with people who are at sixth form".

"I found it extremely interesting looking at different aspects of university life, and it's got me thinking seriously about which university I'd like to go to and what the reality of going to university will mean to me".

If any of your students are interested in taking part, or just want to learn more about the scheme, please get in touch.

Contact: Sophie Hoyle
Tel: 0161 275 2065
Email: sophie.hoyle@manchester.ac.uk

British Science Week 2017

From Tuesday 14th – Friday 17th March 2017 we will once again be running our popular Science Extravaganza days packed with interactive workshops, demonstrations and lectures aimed at pupils in Years 7 to 9.

Each school can bring up to 25 pupils. There is no charge for this event which runs from 10am to 2.30pm. Pupils will need to bring a packed lunch.

This is a very popular event and gets booked up quickly.

If you have any further queries about this event or would like to reserve a space for your pupils from your school, please email schoolsandcolleges@manchester.ac.uk quoting "NSEW 2017" in the subject line.

Contact: Emma Lewis
Tel: 0161 306 1715
Email: schoolsandcolleges@manchester.ac.uk
www.man.ac.uk/wGrQu3



Pre-16 Campus Visits

Teachers of pre-16 students may bring groups of their pupils to visit The University of Manchester campus in order to get a taste of university life, find out more about Higher Education in general and gain an insight into student life at Manchester.

The visits take place between 11am and 1pm and feature the following activities:

- Welcome presentation
- Student ambassador Q&A session
- Campus tour

The welcome presentation provides information relating to Higher Education in general, why people go to university, how decisions your pupils make at this stage of their education will impact their future, and an insight into student life.

The campus tour includes our Students' Union, The University of Manchester Library, the Old Quadrangle (the oldest part of the University), some of our teaching buildings and the Manchester Aquatics Centre.

Dates scheduled to visit the campus during the 2016/17 academic year are as follows:

- Thursday, 9 March 2017 (Year 8/9)
- Friday, 10 March 2017 (Year 10)
- Thursday, 27 April 2017 (Year 10)
- Friday, 28 April 2017 (Year 8/9)
- Thursday, 15 June 2017 (Year 8/9)
- Friday, 16 June 2017 (Year 10)
- Thursday, 22 June 2017 (Year 10)

If you would like to book a place on one of the dates above, please visit the website or email Sophie Flieshman.

Please note that there may be other school/college groups in attendance as we need a minimum of 25 students to run a session. Unfortunately we are not able to provide lunch or refreshments as part of your visit.

Contact: Sophie Flieshman
Tel: 0161 275 0583
Email: sophie.flieshman@manchester.ac.uk
www.man.ac.uk/6ntPEO

Young Persons University Website



The Young Persons University Website provides self-study challenges based around the main subject disciplines studied at The University of Manchester. These Challenges aim to outline key concepts within a particular subject area for the interest of both secondary school learners and college students.

The blog is also regularly updated to showcase research undertaken by PhD candidates from across the University who work to engage young people with university life and study. Topics covered by our contributors include, 'Making robot airplanes'; 'Writing a History of History'; and 'How to read minds... Almost'.

www.ypu.manchester.ac.uk/blog

Girls in to STEM: Dragonfly Day

TBD: Thursday 16th OR Friday 17th February 2017

This day will see your pupils working with female scientists, engineers and mathematicians, find out more about studying and working in STEM and discover why it's not just for boys! The programme will include an introduction to STEM, a speed networking activity, two short, interactive workshops and is finished off with a short guest lecture from a female academic.

Feedback from last year was incredibly positive, with 85% of attendees more interested in finding careers in STEM and 100% of the students who attended feel inspired to go to university.

Numbers: 15 female pupils. This event is free to attend.

If you would like to book a place for your school, please email quoting "Dragonfly" in the subject line.

Contact: Emma Lewis
Tel: 0161 306 1715
Email: schoolsandcolleges@manchester.ac.uk

FORTHCOMING EVENTS AND PROGRAMMES

Academic Guest Lectures

The University of Manchester is home to world-class experts in a wide range of academic fields. In order to share our expertise and enrich your curriculum, we offer subject-specific lectures to students in local schools and colleges in a range of academic disciplines.

Where: Most lectures take place in your school or college.

When: You can arrange a date and time that are mutually convenient for you and our academic.

Duration: The guest lecture is approximately one hour.

Cost: All lectures are free of charge.

Location: Schools and colleges must be based approximately one hour's travelling distance of The University of Manchester. We will try our best to meet your request.

Group size: Minimum 20 students.

To book, visit our Academic Guest Lecture Series webpage:

www.man.ac.uk/rY2YEI

Why Study Talks

Our 'Why Study?' series of presentations provides up-to-date information, advice and guidance (IAG) to young people, so that they can make informed decisions about their future. They aim to raise awareness of, and aspiration to, some of the most competitive and demanding subject areas in higher education.

We can deliver these presentations at schools based within one hour's drive of The University of Manchester. Talks are flexible and may last from 30 to 45 minutes.

To book, visit our Academic enrichment activities webpage:

www.man.ac.uk/rY2YEI

Contact: Lynn Daly
www.man.ac.uk/rY2YEI

OUR ACADEMIC DEPARTMENTS ALSO OFFER A RANGE OF ACTIVITIES OPEN TO SCHOOL GROUPS

Faculty of Biology Medicine and Health

Irene Manton Lecture 2016: 'On you, inside you: the amazing and horrible world of parasites'

**4-6pm, Tuesday 6th December 2016
The Manchester Museum**

In partnership with the Linnean Society, Dr Sheena Cruickshank, (Senior Lecturer in Immunology, and scientist behind the Worm Wagon) will highlight the amazing and successful world of parasites, as well as share her experiences of working in science.

This public lecture, in memory of Irene Manton, the first female president of the Linnean Society will celebrate the significant contribution of women to Natural Sciences and will be attended by Society Fellows, University staff and students.

We warmly invite A-level students interested and talented in the Natural Sciences (priority: state schools and families with no history of HE participation) to attend this highly prestigious lecture. Spaces are limited to 4 students per school, with option of accompanying teacher. Please book by Friday 4th November to avoid disappointment at:

www.eventbrite.co.uk/e/linnean-society-irene-manton-lecture-2016-tickets-27122132027

Contact: Rosanna Denton

Tel: 0161 306 5064

Email: cei@manchester.ac.uk

events.manchester.ac.uk/highlights

Inspiring Futures at the Museum of Medicine and Health

John Charnley: Inspiring Healthcare Careers through the History of the Hip Replacement

**9:30am-3pm, Wednesday 7th December, 2016
University Place and the Manchester Museum**

Audience:

Year 8/9 Manchester school pupils: able, gifted and talented in science subjects (priority: state schools and families with no history of HE participation).

Initially, places limited to 6-8 students/school.

As a School that has attended previous University of Manchester Engagement events, we warmly invite you and your pupils to attend Inspiring Futures at the Museum of Medicine and Health 2016.

Discover more about Healthcare career options through the fascinating history of the Charnley Hip replacement, meeting researchers, students and medical curators from our University.

This event is supported in memory of Charlotte Beswick, who played an instrumental role in the curation and support of the University of Manchester's Museum of Medicine and Health. The museum holds a vast array of historical medical objects. This event will allow access to artefacts that we hold related to Charnley's work.

Students will be inspired in medicine's multidisciplinary approach through the fascinating story of Charnley's hip joint, developed in the North West and considered one of the most important 20th Century British innovations. See www.johncharnleytrust.org/trust/sirjohn.html for further details.

The day's programme will include:

- Interactive introduction presentation on Charnley's story (including historical artefacts from the Museum's collection).
- Three researcher-led workshops: a) Medicine through the Ages, b) Medical Objects and their Histories c) Medical and Health Careers.
- Bio-engineering challenge! Materials Science researchers will challenge the students to draw upon Charnley's genius and assimilate what they have learnt to solve a bio-engineering challenge. Modern prosthetics plus biomaterials (resins, cements, etc) used by our researchers will be provided, allowing students a unique insight into research and researcher's role in medicine.
- Q&A session on University options and career pathways relating to the Healthcare Professions.

Students will receive morning snack. Please bring your own lunches. Transport not included but car park space for a school mini bus will be provided.

Photographs and videos will be done on the day.

To book register your details at

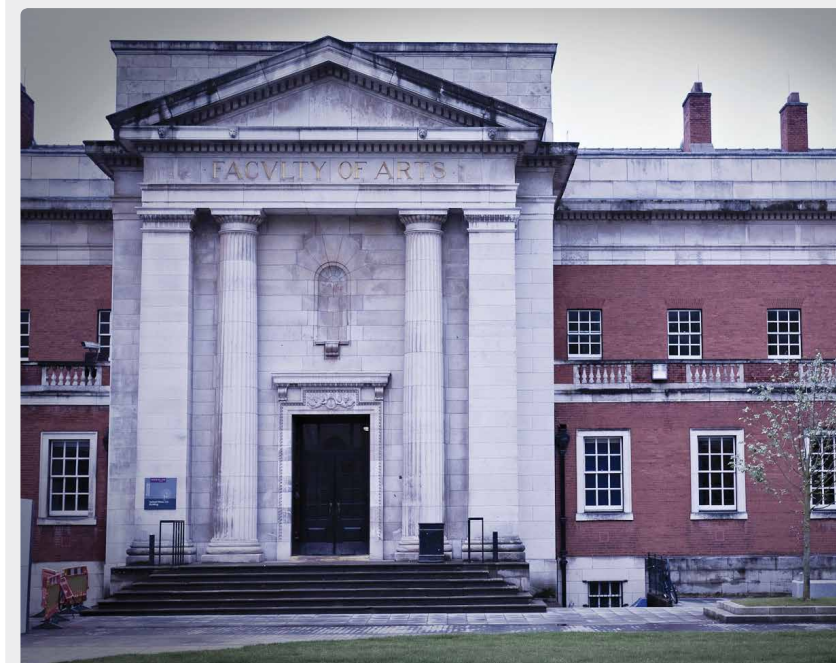
<https://goo.gl/wuLdi7>

Contact: Stephanie Seville

Tel: 0161 275 1940

Email: medical.museum@manchester.ac.uk

www.mms.manchester.ac.uk/museum



School of Arts, Languages and Cultures

Outreach Activities

The School of Arts, Languages and Cultures comprises 19 subject areas, ranging from History and related disciplines, English and Languages to Drama and Music.

Our upcoming events for schools and colleges include:

- Insight into Linguistics and English Language (KS5) June 2017
- Insight into Religions and Theology (KS5) June 2017
- Talks and outreach projects held at your school in various subjects
- Insight into Art History (KS5) – 9 November 2016
- MFL events for KS3 (January 2017), KS4 (April 2017) and KS5 (June 2017)

- Discover more about these and other activities on our website or get in touch to see if we can help you.

Contact: Sonja Bernhard

Tel: 0161 275 3429

Email: Sonja.bernhard@manchester.ac.uk

www.man.ac.uk/wLQj74

School of Chemistry

Flash Bang Show

This show has been developed over many years and has been delivered throughout the country by a succession of presenters, serving to popularise Chemistry to all age-groups. Any level, content is altered to suit, but particularly suited to Year 9.

The exact details of what is said and done will vary somewhat from presenter to presenter and can be tailored to age-group, but in most cases there will be discussions of combustion processes, energy, fuels, the difference between combustion and explosion, the importance of scale and state of division on reactions, colour chemistry and luminescence. Emphasis on entertainment more than education – the session is approximately 1 hour in duration.

Solids, Liquids and Gases

The Solids, Liquids and Gases show has been entertaining and educating senior primary children around Manchester for the last few years. Topics tackled include forces, gases around us, solids and liquids and changing materials along with a series of demonstrations involving dry ice or carbon dioxide, oxygen, and liquid nitrogen. As well as turning solids and liquids into gases, we also turn gases into liquids and have lots of fun with balloons, bangs and bottle-rockets. This grabs the attention of learners to drive home issues of pressure, forces and states of matter while injecting plenty of excitement – the session is approximately 45 minutes in duration.

Contact: Meriel Barham

Tel: 0161 275 4686

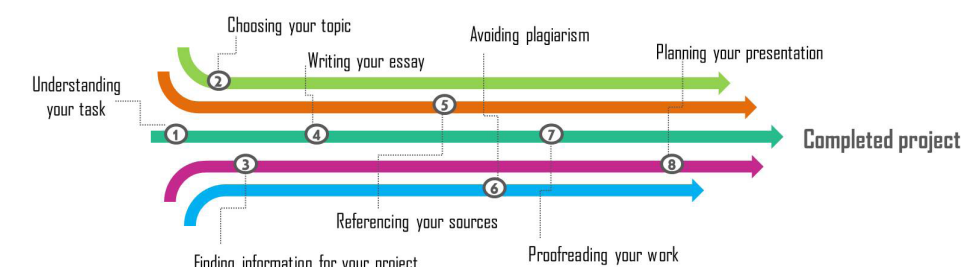
Email: outreach.chemistry@manchester.ac.uk

www.man.ac.uk/V18zYk

The University of Manchester Library

The University of Manchester Library has developed a resource which introduces information literacy skills to students. The resource introduces topics through smaller modules and covers areas such as academic writing, referencing and planning a presentation. These are the same topics which are essential for studying at university.

Contact: Carlene Barton **Email:** uml.widening_participation@manchester.ac.uk



The modules take approximately 20 minutes to complete, and can be combined in any order to meet your students' needs and interests.

Take a look at the resource 'Library support for your project' and contact us on the details below if you would like to embed it within your VLE: www.man.ac.uk/rtf1IE

CULTURAL ASSETS

The Manchester Museum

KS3 Ancient History Workshop

Engage your students in the role of ancient traders as they travel to Egypt, Canaan and Greece to collect ancient goods and watch the great god Poseidon sink their ships: what wares might survive underwater for thousands of years? Then journey back to Roman Manchester to collect evidence of different peoples and activities in the ancient city.

Cost: £75

Duration: 1.5hrs

Numbers: 15-20

Make a booking using our online Booking Form: www.museum.manchester.ac.uk/learning/makeabooking

Contact: Cat Lumb

Tel: 0161 306 1765

Email: Catherine.lumb@manchester.ac.uk

KS3/4 Competition: School Eco Factor

Ready for a challenge?

The University of Manchester is looking for young innovators, visionaries and creative thinkers of the future to help solve the environmental sustainability problems facing our world today. Identify an environmental concern in school or the community and develop a project to address these concerns.

- Teams of between 3-5 pupils
- Key stage 3 and 4 categories
- University mentors available
- Cash prize for school

To receive further information, please express your interest via our online survey: www.tinyurl.com/Eco-Factor with a chance to qualify for a FREE Manchester Museum workshop to support your pupils.

KS4/5 Research Skills Workshop

Expand your students' research skills and work with a PhD researcher from the University of Manchester to explore how museum objects contribute to research. Students will interrogate the research process and develop their own research plan in response to our collection.

Cost: £50

Duration: 1.5hrs

Numbers: 20

Contact: Emily Robinson

Tel: 0161 306 1764

Email: Emily.Robinson@manchester.ac.uk

www.museum.manchester.ac.uk/learning Blog: learningmanchester.wordpress.com @LearningMM

John Rylands Library Deansgate

Education and Learning Programme at The John Rylands Library

Workshops and tours for Schools and Colleges

Our free workshops for Key Stage 2 to Key Stage 5 include opportunities to learn about Ancient Egypt hieroglyphs, to investigate Manchester's past through historic maps and to use the Library's amazing Victorian Gothic building as an inspirational starting point for creative writing.

Free guided tours of our building are also available so students can learn about the architecture and history of the library and its world-class collections of rare books and manuscripts.

Contact the Education team or see our webpages for more information.

NEW FOR 2016-17: Introducing Archives: The Guardian

What is it like to investigate history with original documents? Enrich your students' experience of learning history with this introductory workshop to using archives for A-Level. Students will handle, analyse and interpret documents in the archive of The Manchester Guardian newspaper. Items date from the 1870s to 1920s and potential topics include women's suffrage, the Boer War, World War One, Jewish history or Irish Home Rule. **The workshop is free and lasts 90 minutes. The maximum group size is 20 students.**

English Language Change

Our popular A-Level English Language workshop will be on offer for the weeks commencing 7th November 2016 and 6th March 2017. Students will get a close-up look at items from the Library's collections that illustrate language change over several hundred years including texts from Chaucer, Shakespeare and Johnson. With input from an English Language PhD researcher at the University, we'll discuss significant developments in English and conclude with a look at contemporary examples of language change and usage. **The workshop is free and lasts 90 minutes. The maximum group size is 15 students.**

Tel: 0161 306 6558 **Email:** jrl.education@manchester.ac.uk www.man.ac.uk/9kasQq

FOR SCHOOLS WITH POST-16 PROVISION

Spectroscopy in a suitcase

If it is a struggle to get your pupils out of school then why not try booking a free visit from our Spectroscopy in a Suitcase team for your chemistry class. We have 2 workshops on offer:

Y12/Y13 (A-level and BTEC):

- Paracetamol workshop: students will synthesis paracetamol and analyse their samples using a thin layer chromatography and IR spectroscopy on our portable IR spectrometer;

Y13 (A-level):

- NMR/IR workshop: using our portable NMR & IR spectrometers along with elemental compositions students will identify unknown organic compounds.

Alternatively you can borrow our portable IR spectrometer yourself to use in classes for up to a week. You must be able to collect and return it to The University of Manchester.

Contact: Dr Katayune Presland

Tel: 0161 306 0563

Email: katayune.presland@manchester.ac.uk

To book a visit or a loan please visit www.rsc.org/sias and fill in the online form.

The University of Manchester Aspiring Students' Society (UMASS)



The University of Manchester Aspiring Students' Society is for year 12, year 13 and Access to HE students who are considering going to university. The society gives students an insight into university life at Manchester, support with the application process and helps prepare them for university study. The best thing about UMASS is that it allows students to

choose what they take part in, making it a personalised experience.

For more details and to sign up visit our website.

Email: umass@manchester.ac.uk
www.umass.manchester.ac.uk

@UMASS6

Manchester Access Programme – recruiting now!

The Manchester Access Programme (MAP) is The University of Manchester's flagship Widening Participation scheme for local post-16 students who meet specific academic and background criteria. The aim of the Programme is to support entry to The University of Manchester, or another research-intensive university, through the completion of a portfolio of work demonstrating specific knowledge and skills.

The MAP application form will be available on the MAP website and will open towards the end of October. The MAP team will be able to visit local schools and colleges to give a MAP talk between end October and the start of December 2016. The MAP application deadline is Monday 19 December, 2016.

Potential MAP students need to be in Year 12 and reside or study in Greater Manchester.



Applications are assessed against a range of essential and priority criteria, such as attendance at state school and college, and having parents/carers with no Higher Education experience themselves.

Further information can be found on our website. Please get in touch with the MAP team if you have any questions.

Contact: Manchester Access Programme
Tel: 0161 306 6505
Email: map@manchester.ac.uk
www.manchester.ac.uk/undergraduate/map

FOR SCHOOLS WITH POST-16 PROVISION

Guided campus visits for school and college groups



Student ambassadors giving prospective students a campus tour

Teachers of post-16 students can bring groups of their pupils to visit The University of Manchester campus, in order to get a taste of university life and experience first-hand the atmosphere of the University campus.

These visits are aimed at Year 11 and 12 students, with a focus on how to prepare for higher education.

The visits will include the following activities:

- Welcome presentation – featuring aspects to consider when choosing what and where to study, student life and information about The University of Manchester;
- Student ambassador Q&A panel – where your group get the opportunity to quiz current students about student life and the process of applying to university;
- Campus tour of the University;
- Optional 'Art of Application' session – this focuses on the UCAS application process, in particular what to include in a personal statement.

We have the following dates scheduled for visiting the campus throughout the 2016/17 academic year:

- Wednesday, 16 November 2016
- Thursday, 24 November 2016
- Tuesday, 4 July 2017
- Thursday, 6 July 2017
- Tuesday, 11 July 2017
- Wednesday, 12 July 2017
- Thursday, 13 July 2017

Visits begin at 12.30pm, with the campus tour finishing at 2.30pm. If you would like to stay for the Art of Application session, this will last 1 hour and will finish at 3.30pm.

If you would like to book on to any of the above dates, please complete and return the online booking form to Chris Farrington (when completing the form please indicate whether you would like to attend the Art of Application session). The booking form can be accessed via the Guided Visits webpage.

If any of the above dates are not suitable, please get in touch to discuss an alternative date, subject to availability.

Please note: in order to deliver a campus visit each date must have a minimum of 25 students booked on. Your booking may also be merged with another school or college group. Bookings must be made at least one month in advance of your scheduled visit date.

Contact: Chris Farrington

Tel: 0161 275 8576

Email: Christopher.farrington@manchester.ac.uk

www.man.ac.uk/nxd57J