

News for Schools

The University of Manchester teacher's newsletter

MANCHESTER GATEWAYS



Gateways learners participating in some group work at the Manchester Museum

MANCHESTER GATEWAYS PROGRAMME

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.

Semester 1

Semester 1 got off to a great start with over 500 pupils from Greater Manchester attending Year 8, Year 10 and Year 11 days over the course of the first term.

Year 10 Exploration Visits

Our Year 10 days launched the Gateways Programme for the academic year in October 2016. These days concentrated on transferrable skills and how they are relevant to different careers and studying at university. Learners were given the opportunity to consider their future by

exploring progression routes into careers through a 'Journey through Education' activity, and by researching university courses of interest to them in prospectuses. The location of these days, in the Manchester Museum, also allowed students to take part in workshops held in the galleries, using the Museum artefacts and collections. This session helped to develop their knowledge and interest in STEM, Medical Human and Life Sciences and Humanities subjects taught at university in a hands-on, interactive setting.

Year 11 Skills for Success Visits

Throughout October and November, Year 11 pupils joined us on campus for our Skills for Success Days. These events focused on improving learners' awareness of university learning styles in a group based research task on a topical issue. This provided pupils with the opportunity to experience what both group and independent study would be like at a research-intensive and selective university like Manchester. This year, students had the opportunity to listen to a short lecture on the Rio Olympics and undertake research into Environmental Science, Technology and Engineering, Humanities and Health Care. These areas then formed the basis of a presentation where each group shared their findings. One group from each day even won a prize!

Semester 1

Year 9 Build Your Future Visits

The Year 9 Gateways days started off the New Year in February when learners were able to explore potential career opportunities available following GCSEs, A-levels and degrees. Pupils took part in a 'Me and My Future' session where they were encouraged to think about their potential and what they could possibly achieve when working to 100% potential. Learners also considered their own transferable skills in relation to careers and higher education, thinking about what employers and universities look for in their prospective employees and students. The pupils then took part in three 40 minute workshops: in STEM, Medicine and Healthcare, and in Humanities, delivered by University PhD students.

Gateways Celebration Event

On 8th February, the Gateways team held the third annual Celebration Evening at the University for the families of the young learners who attend our events. The 'University Fair' gave key influencers the chance to engage with different aspects of the University, such as our cultural assets, Students' Union and Careers Service as well as listen to talks about the work of the Gateways Team and why students should consider studying at university.

Year 8 Familiarisation Visits

Our Year 8 Familiarisation Visits take place over 11 days in November and March. The Year 8 day provides an opportunity for learners to explore the large and diverse range of subjects offered at higher education. Pupils are challenged to find 26 subjects that can be studied at university – one for each letter of the alphabet and to participate in a student 'speed dating' session which enables them to grill our student ambassadors about various aspects of the student experience: subjects and learning, meeting new people and societies, living at university and jobs and career prospects. Learners are also introduced to studying at university level by taking part in three hands-on academic workshops delivered by current PhD students. These academic sessions focus on subjects from STEM, Medical Human and Life Sciences, and Humanities to engage pupils with undergraduate courses and learning in higher education.

Summer

The Gateways team are now working on preparing for the upcoming Year 7 University Uncovered days to welcome the new Gateways cohort in April and May. The remainder of Semester 2 will also see visits from more Year 10 pupils in June.

Contact: Emma Britain

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www.manchester.ac.uk/gateways

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.

Greater Manchester higher has been successful in securing funding to deliver the HEFCE funded National Collaborative Outreach Programme (NCOP).

The overall aim of this highly targeted programme is to work towards the Government's goal of doubling participation in higher education amongst disadvantaged groups by 2020, by providing intensive interaction with learners in Y9-13 in electoral wards where participation is lower than expected based on key stage 4 attainment.

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

Booking is now open for our Year 10 campus visits which take place February – June 2017 – 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.

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. It 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.

Contact: Jamie Bytheway
Tel: 0161 247 1019.
Email: gmhigher@mmu.ac.uk
www.gmhigher.ac.uk



Guided campus visits for Year 8, 9 and 10 school groups

The University welcomes campus visits from secondary school groups who wish to get a taste of university life, find out more about higher education and gain an insight into student life at Manchester.

The visits take place between 11am and 1pm on a selection of dates and feature the following activities:

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

The welcome presentation provides information about higher education in general and explores why people go to university and how decisions your pupils make at this stage of their education will impact their future, as well as giving 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.

An academic lecture can be arranged, on request.

To find out what dates are available and download a booking form please visit www.man.ac.uk/6ntPEO

Contact: Sophie Flieshman
Tel: 0161 275 8172
Email: sophie.flieshman@manchester.ac.uk



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
Tel: 0161 306 6506
Email: schoolsandcolleges@manchester.ac.uk

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

LGBTQ+ History Event

Saturday 25 February 2017

The University of Manchester Students' Union held an event for young people between the ages of 14 and 16 to get them thinking about the history of LGBTQ+ people and got to explore the University campus.

Participants got to think about and then design their ideal campaign for LGBTQ

We hope to run this event next year.

Contact: Katie Barnes
Tel: 0161 275 2940
Email: katie.barnes-2@manchester.ac.uk

FORTHCOMING EVENTS AND PROGRAMMES

Young Persons' Forum



Some previous participants of the Young Persons' Forum sharing their opinions on some activities

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 you 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

Year 10 Access to the Professions Days

Healthcare: Saturday 18 March 2017

The Year 10 Access to the Professions Day for Healthcare will be held at The University of Manchester on Saturday 18 March 2017. It aims to give pupils a real insight into undergraduate courses in Healthcare as well as a chance to interact with undergraduate students and academic staff from the Faculty of Biology, Medicine and Health. Pupils will do a variety of interactive workshops under the guidance of healthcare professionals and University staff. They will also be able to speak to healthcare students about their course and student life. The day is intended to be a fun, hands-on learning experience; a unique opportunity only available to a select group of pupils. On arrival, pupils will be placed in small groups with pupils from other local schools, and chaperoned by undergraduates from the University throughout the day.

Lunch will be provided on the day and pupils are expected to attend independently i.e. teachers and parents/carers are not expected to stay for the event but should arrange transport to and from campus.

The day is open to schools that fulfil the widening participation criteria and pupils selected should have an interest in studying a Healthcare course at university and have the potential to achieve 5 A* - C at GCSE or equivalent.

Contact: Gabriele Wegner
Tel: 0161 275 1378
Email: gabriele.wegner@manchester.ac.uk

ACADEMIC SCHOOLS ACTIVITIES

Faculty of Biology Medicine and Health

A varied audience of over 80 attendees, including enthusiastic sixth form students came along to the 2016 Linnean Society lecture to celebrate the significant contribution made by women to the Natural Sciences.



Dr Sheena Cruickshank, key speaker, talked passionately about her research focused on the body's immune response to injury or infections such as parasitic worms. Her interactive lecture included animations and 3-D images of the fascinating and (in Sheena's own words) sometimes 'icky' world of parasites.

The Faculty of Biology, Medicine and Health plans to continue holding this event as part of its Community Engagement and Involvement programme.

Contact: Samantha Franklin
Tel: 0161 306 5064
Email: samantha.franklin@manchester.ac.uk
www.linnean.org

Our academic departments also offer a range of activities open to school groups:

School of Chemistry

POST 16:

Competition: Schools Analyst – Manchester heat (Year 12)

Wed 19 April 2017,
The University of Manchester

Select a team of 3 of your best analytical chemists to battle it out against other students from the North West to determine whose analytical skills are the best at this year's regional heat in Manchester. The day will involve the use of research level analytical equipment to solve real chemistry problems. To register interest, email Meriel Barham.

Contact: Meriel Barham
Tel: 0161 275 4686
Email: outreach.chemistry@manchester.ac.uk
www.man.ac.uk/V18zYk

School of Materials



Engineering Materials Summer School 2017

Come and discover the exciting world of Materials Science at the University of Manchester at this 3 night/4-day residential Summer School from 17 – 20 July 2017 open to year 10 & 11 pupils. The summer school includes taking part in lectures, practical lab based activities and team challenges, and working with current engineering students and world-class scientists.

A limited number of bursaries are available. The application information for them can be found on our website.

Contact: Claire Huyton
Tel: 0161 306 2346
Email: claire.huyton@manchester.ac.uk
www.eventbrite.co.uk/e/engineering-materials-summer-school-tickets-29779970694

CULTURAL ASSETS



British Identity

Year 8

In partnership with Manchester Museum and the University of Manchester's School of Social Sciences

This full day explores contemporary ideas around British Identity, its culture and society, how and why it is has changed over time. Participants will explore the Whitworth's South Asian exhibition and global artefacts at Manchester Museum in relation to the key themes. Students will leave with a greater sense of self and understanding of the diversity of British values.

Free, booking essential (60 places)

Art School Workshops

KS3-KS5

Playful, practical and artist-led workshops to engage with the Whitworth's collection and exhibitions. In these sessions students will make art, communicate ideas and learn new technical skills.

Choose from:

- Draw
- Make: Construction, Printmaking, Textiles
- Express: Creative Writing, Immersive Theatre or Photography.

£90 for a 2 hour workshop

"Pupils and staff thoroughly enjoyed the day. The artist workshop fitted really well with our work in class and I personally gained some tips on dyes and new mark making ideas!" **Teacher**

Free Tours at 11am – Discover the new Whitworth

We bring you closer to art than ever before. Come and explore our new building, collections, indoor and outdoor spaces as our visitor team take you on a tour with a difference. First come first served. Available Tuesday – Friday for up to 20 students per tour.

To make a booking please email: whitworthlearn@manchester.ac.uk

Contact: Denise Bowler
Tel: 0161 275 74523
Email: denise.bowler@manchester.ac.uk

www.whitworth.manchester.ac.uk

CULTURAL ASSETS



The Manchester Museum

KS3 Skill Enrichment Day

Our enrichment day provides your students with the opportunity to have fun in the Museum and can be tailored to focus on particular subjects areas (Science, Cross-curricular or Literacy) within a specified budget. It aims to increase their curiosity in the world around them and enliven their enthusiasm for learning. The workshops and self-guided activities have been designed to enrich their learning and develop their skills.

Cost: £200-£500
Duration: Full or half day
Numbers: 45-120

Make a booking on our website:

www.museum.manchester.ac.uk/learning/makeabooking

Contact: Emily Robinson **Tel:** 0161 306 1764 **Email:** Emily.Robinson@manchester.ac.uk

KS3/4 Animal Mummies Science Workshop

Challenge students to experiment with the research used by archaeologists to learn more about the fascinating practise of animal mummification in ancient Egypt. Using current research techniques, such as light microscopy and CT scan analysis, students will be asked to investigate three sets of animal mummies to reveal the secrets held beneath the bandages.

Cost: £75
Duration: 2hrs
Numbers: 20

KS3/4 Artist-led Drawing

Students work with a practicing artist to creatively document a wide variety of un-cased objects such as a Pangolin and a Walrus skull. The artist uses experimental, fast-paced and fun techniques to engage students in observational drawing and develop skills they can use on the gallery or back in the classroom.

Cost: £50
Duration: 1hrs
Numbers: 25

Make a booking on our website:

www.museum.manchester.ac.uk/learning/makeabooking

Contact: Cat Lumb
Tel: 0161 306 1765
Email: Catherine.lumb@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 thorough 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.

Tel: 0161 306 6558 **Email:** jrl.education@manchester.ac.uk www.manchester.ac.uk/library/rylands/education

Introducing Archives – A Level History

What's it like to investigate history with original documents? Enrich and enhance your students' experience of learning history with our one of introductory workshops to using archives for A Level. Two options are currently available. Students can handle analyse and interpret documents from the archive of The Manchester Guardian newspaper or investigate letters written by a 22 year old history student from the Western front in 1917.

Both workshop are free and last 90 minutes. Maximum group size 20 students.

The Life of Objects Exhibition

Libraries have long been guardians of the written word yet words are only part of the picture – as our latest exhibition illustrates. Instead of books and manuscripts, The Life of Objects showcases some of the more unusual objects in the Library's collections, each of which has its own tale to tell. The exhibition tells stories that cross history, geography and gender with a selection of objects linked to figures as diverse as 20th century composer Delia Derbyshire, the preacher John Wesley and the artist Li Yuan chia.

Free entry. The exhibition runs from 16 March to 27 August 2017.

FOR SCHOOLS WITH POST-16 PROVISION

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

Discover Days for Year 12 Students:



Discover Days are subject specific visit days which allow potential applicants the opportunity to explore our campus and work with staff and students in the academic areas they're interested in, to get an insider taste of a course area before they apply. Students can attend as part of a school group or individually. Discover Days give you real, in-depth insight into the unique

features and opportunities of degree courses that you might study at Manchester. You'll gain first-hand experience of university study, learn more about Manchester student life, and be able to make informed decisions about your university choices before the UCAS application process starts.

Our summer programme of Discover Days will run 26 June 2017 to 14 July 2017 and our provisional programme includes:

- Discover English Literature
- Discover Law
- Discover History
- Discover Sociology
- Discover Philosophy
- Discover Chemistry
- Discover Engineering
- Discover Biological Sciences
- Discover Midwifery
- Discover Nursing

More information can be found at www.manchester.ac.uk/discoverdays

UMASS mini conference

Tuesday 11 April, 2017

The University will be hosting the UMASS mini conference on Tuesday 11 April, aimed at Year 12/13 and Access to HE students. Students will attend sessions that will help them prepare for university, as well as provide them with skills that can be used during their current studies.

Students will attend two sessions from revision skills, note taking and time management and these will be interactive sessions assisted by current students studying at The University of Manchester.

Anyone interested can sign up now by visiting the UMASS website and completing the online booking form.

Contact: Chris Farrington
Tel: 0161 275 8576

Email: umass@manchester.ac.uk and Christopher.farrington@manchester.ac.uk

www.umass.manchester.ac.uk/event/umass-mini-conference-how-to-succeed-at-university

Humanitarian and Conflict Response Institute

Insight into International Disaster Management and Humanitarian Response

29 June 2017, 9.30am – 3.30pm. An event for Year 12 pupils to get a taste of the teaching our BSc International Disaster Management and Humanitarian Response. The day will include a tour with current students, a lecture to outline details of the course and a series of exciting interactive workshops on the following topics:

- Key concepts in humanitarian response
- Introduction to Disaster Management
- Introduction to Global Health

Contact: Adil Mohammed/Charlotte Alcock
Tel: 0161 275 0464

Email: hcri@manchester.ac.uk

www.hcri.manchester.ac.uk

FOR SCHOOLS WITH POST-16 PROVISION

School of Chemistry

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.

School of Social Sciences

Pre-university courses in social Sciences

The School of Social Sciences offers pre-university courses for year 12 and 13 in the following academic areas – economics, politics, sociology, philosophy and social anthropology.

All courses are taught at the University on Wednesday afternoons (6x2 hours sessions). Students who successfully complete one of the courses will be eligible for a reduced offer (one A level grade) for any undergraduate programme administered by the School of Social Sciences.

Full programme details, including eligibility criteria, are provided on the link provided below:

www.socialsciences.manchester.ac.uk/connect/schools-and-colleges/courses

Contact: Dr Tom McCunnie

Tel: 0161 275 1752

Email: tom.mccunnie@manchester.ac.uk

For Teachers

The University of Manchester National Teachers and Advisers Conference

Wednesday 17 May 2017

The 2017 National Teachers and Advisers Conference (NTAC) will take place on Wednesday, 17 May 2017 from 9.30am to 3.30pm at The University of Manchester.

This one-day conference will equip teachers and advisers with information and advice to prepare students for entry to higher education and will address the key topics of student finance, admissions, student decision making and best practice in the provision of information, advice and guidance (IAG) in schools and colleges.

There is no cost to attend this conference and delegates will have the opportunity to attend workshops and discussion panels that will enable them to ask questions and receive information first hand from experts.

For more information about the conference and to register your interest please visit our website:

Contact: Huw Peters

Tel: 0161 306 4013

Email: schoolsandcolleges@manchester.ac.uk

www.manchester.ac.uk/ntac

Guided campus visits for school and college groups

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:

- 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:

www.man.ac.uk/nxdS7J

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

Student ambassadors giving prospective students a campus tour



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/nxdS7J