

The University for
World-Class Professionals



Manchester
Metropolitan
University

Schools Outreach

Widening access to higher education
with Manchester Metropolitan University





Schools Outreach 2016-17



Manchester Metropolitan University offers a range of activities for learners in Primary, Secondary and Post-16 education. The University has two central teams who work with different learner groups. Our programme for 2016-17 offers schools and colleges a wide range of activities to inform and raise awareness of the opportunities in HE and studying at Manchester Metropolitan University.

Widening Participation work with targeted learners from Primary and Secondary schools across Greater Manchester and Cheshire to raise the aspirations of young people through a variety of events and activities.

The Education Liaison Team maintains strong relationships with our feeder schools and colleges. We offer an extensive programme of pre-entry activities, which are designed to inform and raise awareness of the opportunities in Higher Education and studying at Manchester Metropolitan University.

We look forward to working with you in the future.

Overview of our activities 2016-2017

Pre-16

Visits and activities for Primary, Year 4-6

- Primary Festival 2016

Curriculum Enrichment for Primary, Year 4-6

- Art and Design – Creative Support for Schools
- Computing, Mathematics and Digital Technology
- Tomography for Biomedical Research
- Science and the Environment
- Environmental and Sustainability Education
- Ed Lab: Mixing Disciplines and Science Poetry
- Taste of Forest School.

Greater Manchester Higher Collaborative Network

- Campus activities
- School activities
- Events for Targeted Learners
- Teachers, Advisors and Key Influencers events

Higher Horizons Collaborative Network

- Campus Higher Horizons Activities and Events

Manchester Metropolitan University Mentoring and Summer School activities for Year 7-11

- Manchester Metropolitan University Mentoring
- Manchester Metropolitan University Residential Summer School

Curriculum Enrichment events for Year 7-11

Manchester Campus

- Business and Enterprise
- Humanities, Languages and Social Sciences
- Social Care and Social Work
- Science and Engineering
- Ed Lab: Summer Projects
- Healthcare Sciences
- Forensic Science
- Science and Environment
- The Centre of Aviation, Transport and the Environment
- Computing, Mathematics and Digital Technology
- Art and Design
- Ed Lab: Undercover Coding

Cheshire Campus

- Exercise and Sport Science
- Department of Education – Sociology
- Outdoor Studies
- Ed Lab: Taste of Forest School

Post-16 Schools and Colleges Activities

Post-16 Schools and Colleges Activities for Teachers and Advisors

Curriculum Enrichment Activities for Post-16 learners

- Science and Environment
- Outdoor Studies

Visits and activities for Primary, Year 4-6.

Primary Festival

The Primary Festival will take place in June 2017 and is a unique opportunity for pupils in Year 4-6 to sample a day in the life of a university student.

Pupils will have the opportunity to develop their knowledge and understanding of higher education with student ambassadors who will come to school to talk about higher education. Their knowledge and understanding is developed further with a visit to the university and a graduation.

PRE WORKSHOP: Before every campus visit to Manchester Metropolitan University, student ambassadors will come to school to deliver a one and a half hour workshop as an introduction to 'University' covering such topics as; courses, what student life is like, what a university campus is like and what to expect.

MEET THE STUDENTS: Meet and interview current Manchester Metropolitan University students about their courses, their experience at university and their backgrounds.

CAMPUS TOUR: Take a tour of Manchester Metropolitan University's All Saints Campus, led by student ambassadors, to find out lots of interesting facts and have the opportunity to ask questions along the way. Pupils will see where the students live, where they learn and study and where they socialise around campus.

SUBJECT SESSION: We have a number of student ambassadors who have developed subject sessions to deliver to primary school pupils. These provide an introduction to different subject areas in an interactive way.

**The visits can each be
half day (10.00am–12pm)
or 12.30pm–2.30pm)
and a full day
10.00am–2.30pm.**



Curriculum Enrichment for Primary Year 4-6

Art and Design

Creative Support for Schools

Suitable for Year 1-6

Do you have ideas for Creative projects for your school but no time or resources to implement them? Would you like to offer a wider scope of creative opportunities in the classroom but don't know where to start? Would you like to offer extracurricular art/design clubs but don't have the staffing?

At the School of Art we can help you provide more opportunities for your pupils in your school. We can provide:

- contact with artists and practitioners for artist-in-residence opportunities for your school
- experienced graduate practitioners to run specific creative projects
- undergraduate mentors to help with in-school projects or extra-curricular clubs or activities
- professional development opportunities for teachers
- help, advice and support... just ask us!



Please contact Clare Knox-Bentham to discuss your needs and how Manchester School of Art can support you
c.knox-bentham@mmu.ac.uk

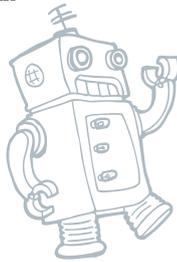


Computing, Mathematics and Digital Technology

Fun with Robots

Suitable for pupils in Year 5 or 6

There will be an introduction, for pupils, to the schools' robotic dog AIBO and the Nao robot. The talk will show pupils what robots can do. There will also be discussions about the future of robotics and examples of how mathematics is heavily involved.



Tomography for Biomedical Research

Suitable for pupils in Year 1-6

The workshop will explore the topic of 'tomography' and a number of topics will be covered during the session including X-rays, tomography, biomaterials and regenerative medicine. The pupils will have a chance to do a hands-on activity whilst learning more about the wonders of the human body.

This workshop can accommodate a max of 20 pupils.

For further information, please contact schoolsoutreach@mmu.ac.uk



Science and Environment

My neighbourhood, my space

Suitable for pupils in Year 5 or 6

The workshop will begin with a brief introduction to the importance of public space in everyday lives, not least public space in local neighbourhoods.

Working in small groups, learners will be encouraged to think about their own neighbourhood and how they use spaces in their local area. Large scale maps will be provided and learners will be asked to mark places they like and use and places they dislike and avoid.

At the end of the sessions, learners will be asked to consider the extent to which young people are permitted to use public spaces freely in their neighbourhood and examples from other neighbourhoods will be presented to allow comparison.

This will take place in the school and Manchester Metropolitan University. Students will come in to the school to assist pupils in carrying out and understanding the tests and help the pupils understand more about the tests by playing the role of farmer and scientist to highlight the impact of agricultural run off into water courses.

Streamwatch

Suitable for pupils in Year 5 or 6

Streamwatch kits are for chemical analysis using simple analytical test kits which can be taken into the field to measure parameters such as pH, nitrate, dissolved oxygen, hardness, turbidity and temperature and thus provide information on the health of local streams and ponds.

The kits can be brought in to school by Manchester Metropolitan University. Students and can be borrowed by schools to make measurements.

For further information, please contact schoolsoutreach@mmu.ac.uk

Environmental and Sustainability Education

Feel it, Smell it, Find it

Suitable for pupils in Year 4-6

Experience the outdoors right in the centre of Hulme at Manchester Metropolitan University's Manchester Campus – Birley. Students are transported right into the natural environment during their visit, learning about wildlife, habitats, biodiversity and plants – including culinary herbs and fruits.

Manchester Metropolitan University's student ambassadors will deliver fun and interactive activities to groups of primary children which utilise the fantastic environmental features at the campus.

The activity your school are involved in will depend upon the time of year – ranging from pond dipping, tree measuring, minibeast searches, smell and identify plant searches and orchard discovery!



A great opportunity to get out of the classroom and experience how learning can happen through new outdoor experiences.

What local primary school children say:

"When we went to the pond and discovered animals that Year 5 didn't know all about, it was great! Incredible!"

– Year 5 pupil

The activities achieve a range of outdoor and environmental education goals including gaining a variety of experiences in and a basic understanding of the environment.

Each activity is suitable for groups of 10 children.

For further information, please contact

schoolsoutreach@mmu.ac.uk



Mixing Disciplines with Science Poetry

(Y5 to Y6 – Manchester Campus)

Pupils often label themselves, or are labelled, as either artistic and creative, or scientific. In this workshop we merge two often distinct disciplines into one activity which enables pupils to explore them in a new way. It opens pupils up to the concept that both poetry and science are ways of describing the world, and that neither one is necessarily better than the other.

Specifically, the session offers primary school pupils the chance to question the differences, and explore the similarities, between science and poetry through practical experiments and poetic performance. This session is inclusive and engaging and can be delivered on site or in school.

For further details on any of the above activities, or to ask any questions on how we could work together, please contact edlab@mmu.ac.uk



Ed Lab

A Taste of Forest School

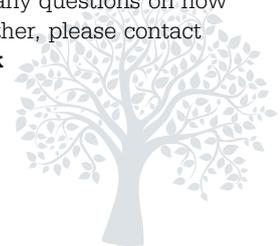
Y2 to Y6 – Crewe Campus

Forest School is an method of educational provision which originated in Scandinavian countries, and has found increasing popularity in the UK in recent years.

It a method of outdoor education which emphasises connection with nature and autonomy, and facilitates cross-curricula learning and holistic development. The Faculty of Education at MMU Cheshire has developed a growing practical and intellectual expertise in Forest School provision – which we are able to make available to schools and pupils.

For younger pupils (up to 14 years), we can facilitate a forest school play experience intended to re-engage and refresh how they think about education – including practical activities, such as tools and fire, designed to develop team-building, self-esteem and aspiration development. For older pupils, we offer a practical experience which provides further opportunities to reflect upon the philosophies and practice of delivering forest school activity – ideal for those with an interest in study of education and childhood.

For further details on any of the above activities, or to ask any questions on how we could work together, please contact edlab@mmu.ac.uk



Greater Manchester Higher



Aiming Higher Together

Greater Manchester Higher is a partnership programme between higher education providers in Greater Manchester. The programme provides high quality, impartial information, advice and guidance about higher education, with the aim of increasing awareness and raising ambitions amongst talented learners in Greater Manchester. Greater Manchester Higher offers the following range of events to schools:

Campus activities

Year 8/9 Choices Days

This one day event is designed to give Year 8 and Year 9 learners an opportunity to reflect on their options for the future, in advance of choosing their GCSE options. Learners will examine the implication of their choices and how these influence their future. The event includes a workshop, campus tour and the opportunity to speak with current students from across the partnership. The pupils will also see a drama performance as part of the day.



Year 10 Campus Visits

These visits provide learners with the opportunity to visit a university campus and gain an insight into student life and the range of courses available. The visit will consist of a University Uncovered workshop, focusing on the differences between school and higher education and student finance, followed by a campus tour. The visit will also introduce pupils to the Student's Union and showcase the impact it has on student life. Throughout the visit, pupils will work closely with current students from across the partnership to obtain first-hand information about studying at a higher level.

These events all follow the same format and are hosted at one of the universities in the partnership (University of Bolton, The University of Manchester, Manchester Metropolitan University, University of Salford).

To book a place, or for further information about Choices Days and Campus Visits, please visit:
www.gmhigher.ac.uk

School activities

Support for IAG events:

Greater Manchester Higher are committed to attending IAG events in schools to promote higher education to learners in Greater Manchester.

Examples of events we might attend in your school include:

- Parents' evenings
- Careers fairs
- Options evenings



Student Ambassadors will attend your event with a Greater Manchester Higher stand offering generic advice on progression routes and information on entry requirements on a wide range of courses.

Presentations and workshops:

A representative from the programme can visit your school and deliver the following presentations:

- Student Life (delivered by current students)
- Year 8/9 Choices
- Year 10/11 Choices
- General HE presentations
- Revision Skills





Star Student game:

Star Student is a large board game that introduces Year 8 and 9 students to university and higher education through an exciting team activity. Human counters move around the board as each team answers a series of questions relating to university. Answers are given through mime, drawing, multiple choice questions and spelling, so there's something for everyone. This can be delivered to a class of up to 28 at a time and takes around an hour to complete. The game will be delivered in schools by our student ambassadors, who will also talk about their university experience.

For more information or to request our attendance at an event please visit:
www.gmhigher.ac.uk

Events for Targeted Learners

Greater Manchester Higher is keen to support under-represented groups in higher education, particularly young people from care and disabled students. Over the past few years the partnership has developed an exciting programme of activities to engage with these target groups. Below are some examples but please see: www.gmhigher.ac.uk for the full programme of events with targeted learners.

Success4Life project for care-experienced young people

This programme brings together looked-after young people from Year 8 and 9 to take part in interactive sessions that will develop their confidence and key skills, and raise their awareness of higher education. The sessions end with a graduation to mark the students' success. A 10 week programme is delivered at The University of Manchester and we can deliver a condensed 5 week version of the programme in a venue within the target local authority.

Visit Days for Disabled Learners

As well as being an introduction to higher education, these days will include information about support available for disabled students, information on the Disabled Students Allowance, as well as the more general financial support available. Pupils will also have the chance to meet disabled university students who'll talk about their experiences and provide advice for the younger learners.



Teachers, Advisors and Key Influencers

Teacher and Advisor CPD

Greater Manchester Higher is committed to providing relevant CPD sessions for teachers and advisors across Greater Manchester. These are designed for colleagues who work with pre-16 learners, advising them about their options for the future in relation to higher education. The topics will cover relevant issues in HE and how this information can be relayed to your pupils. Each session will last 1.5 hours and the topics covered include:

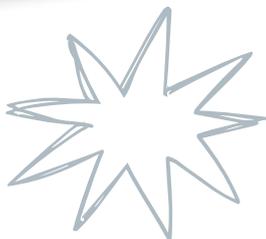
- Student finance
- A Beginners Guide to UCAS
- Progression Pathways

Key Influencers

We also offer a range of events and presentations for key influencers (such as teachers, designated teachers, advisors, social workers and foster carers) of targeted learners. These sessions provide an interactive forum for professionals to find out more about the higher education system and explore how best to support targeted learners on their journey.

All of the above sessions can be delivered in school/the local authority or on campus, either as standalone activities or as part of a training session. Content can be tailored to suit the particular needs and interests of the audience.

For more information about these activities please visit: www.gmhigher.ac.uk



Higher Horizons



Higher Horizons is a collaborative Network of universities and colleges supporting learners in Cheshire, Staffordshire and the surrounding areas. The network members include Manchester Metropolitan University (Cheshire Campus), The University of Chester, The University of Derby, Staffordshire University, The University of Oxford – Somerville college, Harper Adams University, Macclesfield College, Reaseheath College, South Cheshire College and Mid Cheshire College and the lead institution – Keele University.

As a partnership, we offer the following activities.

Campus Higher Horizons Activities and Events

Year 10 Partnership days

Year 10 learners are invited to visit the campus of the host member institution to take part in a variety of interactive subject tasters delivered by all the institutions, as

well as experiencing fun activities led by current students. These will focus on key skills and raise awareness of the issues that young people need to think about when considering higher education.

Uni 4 Me Days

Higher Horizons work closely with Virtual Heads from their local authorities to provide a campus visit specifically for pupils who have been or are currently in care, and accompanying foster carers, social workers, key workers and local authority staff. This day is focused specifically around raising aspirations by taking part in interactive subject tasters from partner institutions. We also provide a session on Care Leaver Support for the accompanying adults to attend.



Year 8/9 Choices Days

This one day event is designed to give Year 8 and Year 9 learners an opportunity to reflect on their options for the future, in advance of choosing their GCSE options. Learners will examine the implication of their choices and how these influence their future. The event includes a workshop, campus tour and the opportunity to speak with current students from across the partnership. The pupils will also see a drama performance from the performing arts group 2Engage as part of the day.

80 pupils (max 20 per school)



Campus Visit for Young Carers and Young Adult Carers

Working with The Carers Trust and Cheshire Young Carers, we invite Young Carers to come to campus to experience University to help make choices about their future. This day includes a chance to hear about how the University supports Young Carers, and to speak to students who are carers to find out first hand their experiences at Manchester Metropolitan University. Depending on size and preferences of the group we can tailor the workshops to suit group interests.



For more information or for booking, please contact the Higher Horizons Network Manager – Anthony Sutcliffe
a.g.sutcliffe@keele.ac.uk



Exercise and Sports Science Festival Day

A day of taster sessions in different areas of Sport Science, coaching, physiology, field testing and team building. A chance to experience Sport at Manchester Metropolitan University and generally in a Higher Education setting to look at different careers in this field. Pupils will be expected to have an interest in Sport and Exercise Science to attend this day.

60 – 100 pupils

Making Foreign Languages an Option Day

This day focusses on four different languages, French, Italian, Spanish and German. Pupils have a development session in a language they already study, then a taster session in a language that they are not taught. Either students who are studying the language deliver the sessions or are native speakers. They will discuss with pupils the benefits of studying a language, what their course involves and career prospects.

The days are designed for pupils who have not yet taken their GCSE options.

80 pupils (max 40 per school)



For more information or for booking, please contact the Higher Horizons Network Manager – Anthony Sutcliffe a.g.sutcliffe@keele.ac.uk

Manchester Metropolitan University Mentoring Scheme and Summer School

Manchester Metropolitan University Mentoring Scheme

We offer a 10 session aspirations group mentoring programme for pupils in Year 10. The 10 session programme includes:

- Looking to the future: Goals and ambitions
- Life after Year 11: Further Education
- Life after Year 11: Higher Education
- Student Life and Finance
- CV's and Applications
- Study Skills – learning styles and managing your time

Mentors are trained student ambassadors who can deliver the sessions to groups of up to 10 pupils. Our mentoring programme is linked to our annual residential, the Manchester Metropolitan University Summer School in which the mentees will have priority places to attend.

Manchester Metropolitan University Residential Summer School

The Manchester Metropolitan University Residential Summer School is a unique opportunity for pupils from Year 10 to find out more about university life and what it is really like to be a student. The Summer School is delivered over 2 nights, 3 days at Manchester Metropolitan University All Saints Campus. Pupils will stay in student accommodation, take their meals in the student canteen and take part in a range of daytime and evening activities.

For more information please contact schoolsoutreach@mmu.ac.uk



Manchester Campus Curriculum events for Year 7-11

Business Enterprise

The Enterprise days at Manchester Metropolitan University are delivered in partnership with Young Enterprise Northwest and are most suitable for pupils in Year 9 and 10.

The day aims to encourage and help pupils realise the benefits of team building, working with others and skills for working life. A variety of themes are available, based on different industries. The in the case of Manchester Metropolitan University, pupils will design their own business.

The day will involve pupils being separated into small teams and set challenges such as; securing a bank loan for their business, buying materials to make their chosen product and designing a marketing strategy to promote their business. All Industry Masterclasses begin with team building games designed to engage pupils and encourage competitive frames of mind, as well as making pupils feel comfortable and positive about the tasks ahead. Throughout the day learners are encouraged to work as a team and practice their communication skills and ultimately to enjoy the challenges set up for them. Whilst pupils are working in groups, trained student ambassadors help to facilitate.

Dates and booking information are available through schoolsoutreach@mmu.ac.uk



Humanities, Languages and Social Sciences

Migrating Passions

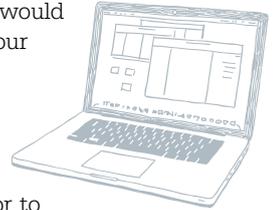
A series of workshops designed to open up dialogues between different cultures and generations and to challenge negative stereotypes of migrants by celebrating the contribution they have made to British society. The workshops will be delivered by student ambassadors here at the university or at your school and feed into areas such as pupil voice, citizenship, PSHE and all humanities subjects. These workshops are suitable for EAL students.

To find out more, please email:
hlssschools@mmu.ac.uk



Homework Club at the Moss Side Powerhouse Library

From 22nd September 2015 our humanities ambassadors will be hosting a homework club at the Powerhouse in Moss Side. Pupils in Year 7 to 11 are welcome to bring along any revision, projects or other homework to the sessions to receive one-to-one assistance free of charge. Students will have access to computers and printers. Please contact us, if you would like a poster for your classroom or library to promote this opportunity to your pupils.



To find out more or to book a talk, please email
hlssschools@mmu.ac.uk

Human Rights Workshops

Cross-curricular workshops designed to raise awareness about human rights issues around the world. The workshops will be delivered by student ambassadors either here at the university or at your school and feed into areas such as pupil voice, PSHE, Citizenship and all humanities subjects.

For further information and to book:
hlssschools@mmu.ac.uk
or visit **www2.mmu.ac.uk/hlss/schools-liaison/events/**





Making Foreign Languages an Option

Suitable for Year 8 and 9 pupils

These days have run for several years and make use of the specifically designed interactive resources. The day usually includes 4 languages; French, Italian, Spanish and German, and pupils have a development session in a language they already study, plus a taster in a new language.

The days are delivered by current Manchester Metropolitan University students who are either studying the language at the university or are native speakers. They are therefore able to talk to the pupils about the benefits of continuing to study a language, what they do on their course (including studying abroad) and the career prospects for speakers of other languages.

The days are designed to be taken by pupils before they take their GCSE options so are targeted at Year 8 and 9 pupils. Due to the popularity of these days, group sizes are restricted to a maximum of 25 pupils per school.

For further information and to book please contact schoolsoutreach@mmu.ac.uk

Social Care and Social Work

Thinking of Social Care?

Suitable for Year 10-11

An opportunity to have a taster session in several areas of Social Care with an academic from the Department of Social Care and Social Work. Areas of interest linked to the curriculum that can be covered are:

- Criminal Justice
- Criminal Poverty
- Representing Vulnerable Groups
- Digital Communications

These popular workshops are ideal for pupils looking to pursue a career in this area. Workshops can take place in school or at the Birley Campus in Manchester.

For more information regarding the workshops please contact Clive McGoun on c.mcgoun@mmu.ac.uk or schoolsoutreach@mmu.ac.uk for booking.



Science and Engineering

Clean Energy and Hydrogen Fuel Cell Systems

Suitable for Year 10-11

This session aims at introducing pupils to the science of clean and renewable energy which is a great concern for today's world. Solar, wind and fuel cells are the best available options to secure such clean and non-depleted energy.

This session starts by an overview of conventional energy systems with a focus on their negative effects on environment. Consequently, wind and solar based renewable energy systems will be introduced and tested via practical activities. Finally, hydrogen generated by solar energy will be fed into a fuel cell which generates sufficient electricity to drive daily used electrical and electronic devices.

- Introduction to conventional energy systems
- Practical session on photovoltaic solar to electrical energy converter
- Demonstration on small scale fuel cell power system

Fuelling the Future: Hydrogen Fuels

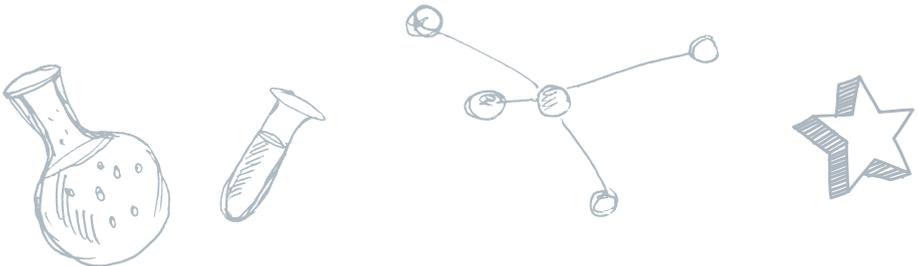
Suitable for Year 9-11

Hydrogen fuel cells, a relatively new technology can produce clean, non-polluting energy in a highly efficient manner. However, in order for us to use hydrogen fuels in our everyday lives, we must first look at the pros, cons, and implications of moving away from fossil fuels and investing in hydrogen from multiple viewpoints of society. In this day-long event, students will participate in a 'Dragons Den' type activity centred around the decision making process of when an energy company seeks permission to build a new hydrogen fuel cell power plant in their town.

- Introduction to hydrogen fuel cells, a renewable, green energy source
- Considerations of the current state of energy including fossil fuels

Consider the wider impact science and engineering has on society and the challenges and decisions that must be made to take science from the lab to market.

Min 30 pupils (from one or multiple schools).



Introduction to Engineering and Technology

Suitable for Year 9-11

The introduction to Engineering enables learners to develop an understanding of electrical and mechanical engineering through practical tasks and problem solving challenges.

The session involves programming a microcontroller to respond to inputs and provide feedback to a user. Microcontrollers are used everywhere in modern day living from washing machines to cars. After the first session learners will be asked to design a support structure for an oil rig at the lowest cost but with the structural functionality required. This problem solving part of the session is set as a challenge for learners. Please note, this session can accommodate a max number of 25 learners.

For further information or to book, please contact schoolsoutreach@mmu.ac.uk

Healthcare Sciences

DNA, Humans and Genetics

Suitable for Year 7-11

The taster session in Healthcare Science covers a series of topics relating to human genetics and molecular genetics. Topics can be tailored to suit individual requirements.



Forensic Science

Crime Scene Investigation Taster Sessions

Suitable for Year 7-11

Want to know what it's really like to be a crime scene examiner?

Crime scene taster sessions are available at your school or in our purpose-built crime scene flat on the All Saints Campus. The content of the sessions is flexible and is designed to fit in with any specific learning requirements you have, age of the pupils and group size. Activities usually involve small group work doing a selection of "hands-on" practical activities which focus on different aspects of forensic science and crime scene investigation. Examples include:

- Blood analysis – Discover how useful blood stains at a crime scene can be, carry out colour change tests to identify blood, use microscopy to look at red and white blood cells



- Crime scene flat – Dress as a crime scene examiner and investigate a scenario in our very own crime scene flat!
- Hair and fibre analysis – Use microscopy to examine human and animal hairs, collect and examine fibres from suspect clothing
- Handwriting – Learn to recognise different in handwriting styles, analyse the composition of writing inks using chromatography
- Fingerprints – Discover the uniqueness of fingerprints, take your own set of fingerprints, learn how and why different fingerprint powders are used, compare suspect prints to a database
- Footwear marks – See how individual footwear marks can be, compare suspect and crime scene footwear marks

For further information please contact **schoolsoutreach@mmu.ac.uk**

Science and Environment

My neighbourhood, my space

Suitable for Year 7-8

Delivered by Kirsten Owen

The workshop will begin with a brief introduction to the importance of public space in everyday lives, not least public space in local neighbourhoods.

Working in small groups, learners will be encouraged to think about their own neighbourhood and how they use spaces in their local area. Large scale maps will be provided and learners will be asked to mark places they like and use and places they dislike and avoid.

At the end of the sessions, learners will be asked to consider the extent to which young people are permitted to use public spaces freely in their neighbourhood and examples from other neighbourhoods will be presented to allow comparison.

Please note, this session can accommodate a max number of 25 learners.

For further information or to book, please contact **schoolsoutreach@mmu.ac.uk**

Streamwatch

Suitable for pupils in Year 7-11

Streamwatch kits are for chemical analysis using simple analytical test kits which can be taken into the field to measure parameters such as pH, nitrate, dissolved oxygen, hardness, turbidity and temperature and thus provide information on the health of local streams and ponds.

The kits can be brought in to school by Manchester Metropolitan University Students and can be borrowed by schools to make measurements.

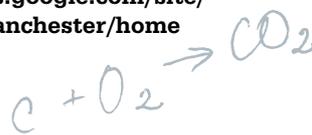


Chemquiz

Suitable for Year 8-11

The annual Greater Manchester Chemistry Quiz is delivered in the summer term and involves Chemistry practical activities and demonstrations, with an associated quiz. This activity is supported by the Royal Society of Chemistry (RSC).

More information can be found at:
<https://sites.google.com/site/chemquizmanchester/home>



EdLab Summer Projects

(Y10 / Y11 / Y12 – Manchester Campus)

EdLab is a Faculty of Education initiative which aims to support our students in devising, planning and implementing exciting educational projects which support our local community and take interesting experiences into schools and other settings. Each year, we extend the offer to students in local schools and colleges who may have ambitions (or interest) towards studying education at university.

Participants will visit the MMU campus for four full days over the summer holidays to collaborate in devising and implementing a small scale educational project.

Through this project, they will develop valuable experience to demonstrate their commitment to a career in education, and will network with staff with the Faculty of Education who will provide guidance and support in applying to the diverse range of courses available.

Places on the summer project are strictly limited – and participants apply directly to be involved. To be placed on the mailing list for further information, email edlab@mmu.ac.uk with the subject line “Summer Projects”.

The Centre of Aviation, Transport and the Environment

Sustainable Aviation Summer School (non-residential)

Suitable for Year 8-10

The Sustainable Aviation Summer School is a 2 day workshop which focuses on the following topics:

- The social and economic benefits of air travel, how aviation has changed the lives of people in Manchester over the past 50 years.
- The associated environment costs: climate change and noise pollution.
- The sustainability dilemma: Summer holiday destinations in the future.

The workshop consists of a mixture of presentations and class exercises.

The visit can include a trip to Manchester Airport on an optional 3rd day.

For further information, please contact schoolsoutreach@mmu.ac.uk



Computing, Mathematics and Digital Technology

Fun with Robots

Suitable for Year 7-12

Pupils will be introduced to the schools' robotic dog AIBO and the Nao robot. The talk will show pupils what robots can do. There will also be discussions about the future of robotics and examples of how mathematics is heavily involved.

Manchester Metropolitan University PopMaths Quiz

Suitable for Year 7-11

Using a pub quiz format that everyone can get involved in, our PopMaths quiz is designed for school children in Year 7-11 and will test students' knowledge and skills in mathematics, as well as how well they work together as a team, under timed conditions.

School teams take part in two different year groups, Year 7-9 and Year 10-11. Each team may have up to 6 students. There are 20 mathematical questions/problems to be solved, which will draw upon participants knowledge of algebra, statistics, probability and so on.

The quiz will be followed by fun activities which aim to give pupils, teachers and parents an insight into the fascinating world of mathematics and its applications.

This event will take place during the Faculty Science Week – late March.

For further information please contact schoolsoutreach@mmu.ac.uk

Brain Inspired Computing

Suitable for Year 10-12

The average human brain consists of about 100 billion neurons connected by around a thousand trillion synapses – it is the most powerful computer known and yet only consumes about 25 Watts of power. Two mathematicians from Manchester Metropolitan University have invented a way to perform conventional computing using brain dynamics. The invention has potential applications in two scientific fields. In Computing, it could lead to the building of the world's most powerful supercomputer. In Biology, it could provide an assay (test circuit) for cell degradation to help with drug testing for neurological conditions such as Alzheimer's disease, Parkinson's disease and epilepsy.

This is a lecture which is an hour long and can accommodate up to 100 pupils.

For further information please contact schoolsoutreach@mmu.ac.uk

The invention is simple to describe to school pupils and they will learn how brain cells (neurons) communicate with one another. This talk will demonstrate how mathematics has many applications in the real world.



Art and Design

Interrogate the Art School

Suitable for Year 7-11

A day for pupils to work with student Art & Design Mentors finding out what happens in the Manchester School of Art.

Working in teams and accompanied by an experienced undergraduate Art & Design Mentor, pupils explore the faculty, cross-examine our students and record what they see and hear. The information gathered is then curated into a team presentation. This opportunity encourages participants to identify information pertinent to them and offers the opportunity to explore and research.

Interrogation is undertaken during the morning session. Curation, selection and printing is completed over a working lunch, with final production and sharing of presentations in the afternoon.

This event is available on request.

For booking or more information please contact Clare Knox-Bentham

c.knox-bentham@mmu.ac.uk or
Elle Simms – **E.Simms@mmu.ac.uk**

National Art & Design Saturday Club

Suitable for Year 9-11

The National Art & Design Saturday Club gives young people aged 14–16 the unique opportunity to study art and design every Saturday morning at **Manchester School of Art** at Manchester Metropolitan University **free of charge**.



The aim is to nurture young people's talent and build their confidence and self-esteem. Last year 1,000 young people across the UK took part in their local Saturday Club, and it gave them an insight into college life and an understanding of new opportunities that further and higher education can offer. Manchester School of Art offer a club that aims to allow students the opportunity to develop creative thinking throughout varied disciplines. Spanning the academic year, students work with students, Art and Design Practitioners, and graduates from our School of Art, allowing the club member to ask questions and learn about the possibility of a creative future.

Club members also visit Manchester's best museums and galleries, and exhibit their work in their own Summer Show at Somerset House, London. They are given the opportunity to attend a Masterclass with one of the UK's foremost designers or artists.

The Club is equally suitable for boys and girls of all abilities with an interest in art and design. A Club member attending last year said: "The Saturday Club tutors offered me a lot of help and advice about how to improve my work. They gave me a new understanding and love for art and have influenced my future career greatly."

We are looking for young people who have an interest in Art, Design and Technology to take part in our programme of exciting activities.

We hold an Open Day in October and the club runs from October – May.

To find out more or to book a place at our Taster Sessions, please contact Elle Simms at **e.simms@mmu.ac.uk**. Or visit our website at **www.artdes.mmu.ac.uk/engage**

For further details about our activities and events please visit **http://www.art.mmu.ac.uk/outreach/** and follow our blog **http://msoutreach.tumblr.com**

Deep Learning Days

Suitable for Year 7-11

Manchester School of Art are offering Deep Learning Days delivered at your school which allow your pupils to immerse themselves in a creative subject for a day or half-day, to allow a mini 'Art School Experience'!

Sessions are led by School of Art staff, graduate practitioners or students and will look at problem solving, enterprise and business within the Creative Sector, learning a practical-based skill or looking at materials manipulation. Examples of Deep Learning Days we have delivered are

- Animation workshop
- Paper cutting and manipulation
- Experiential careers advice days
- Thinking and Making in 3D
- Street art workshop

Please contact us to discuss your school's requirements.



Creative Support for Schools

Suitable for pupils in Year 7-11

Do you have ideas for Creative projects for your school but no time or resources to implement them? Would you like to offer a wider scope of creative opportunities in the classroom but don't know where to start? Would you like to offer extracurricular art/design clubs but don't have the staffing?

At the School of Art we can help you provide more opportunities for your pupils in your school. We can provide:

- contact with artists and practitioners for artist-in-residence opportunities for your school
- experienced graduate practitioners to run specific creative projects
- undergraduate mentors to help with in-school projects or extra-curricular clubs or activities
- professional development opportunities for teachers
- help, advice and support... just ask us!

Please contact Clare Knox-Bentham to discuss your needs and how Manchester School of Art can support you.

c.knox-bentham@mmu.ac.uk



Summer Schools

Suitable for Year 7-11

What is an Art School? Is it just drawing, painting and sculpture? How will coming to Manchester School of Art help me find a job? What role does an Art Graduate have in the 21st century workplace?

How can you earn a living from creativity? How can I make money from the things I make? What sort of job could I end up with if I study a degree in a creative subject?

Manchester School of Art offers a variety of Summer Schools which can inform and advise on your future, or just let you have some creative fun! Our Summer Schools allow you access to the University's Art & Design facilities and there will be sessions run by our academic staff, graduates and students so you will be able to talk to representatives of all aspects of the creative experience.... And of course you will have fun making in a variety of media and hopefully create some really interesting work for your portfolio!

Summer Schools run in July and August 2016.

Places are limited and allocated by selected application only. To find out more, please contact Elle Simms at e.simms@mmu.ac.uk. Or visit our website at www.artdes.mmu.ac.uk/engage

Creative Futures

Suitable for Year 7-13

Manchester School of Art at Manchester Metropolitan University invite parents, pupils, teachers, head teachers and governors to an event which may be of interest to your children. Creative Futures is an evening of talks and tours providing information about opportunities for study and subsequent careers in Art, Design, Media and Architecture.





The evening is for:

- Pupils at GCSE options stage, or those already thinking about university – Creative Futures is the perfect opportunity to find out what a modern art school can offer.
- Parents who may be unsure whether a creative degree is a good choice for future careers options, and to find out more about how the UK's Creative Industries are experiencing incredible economic success
- Discovering what skills we look for in our applicants and find out more about the breadth of choice in Higher Education to give your children the best advice.

We would very much like to meet you to discuss what we can offer your child, particularly through enrichment opportunities and careers guidance. There will be talks, tours, workshops and participatory events throughout the evening.

For booking or more information, please contact Clare Knox-Bentham c.knox-bentham@mmu.ac.uk or Elle Simms – E.Simms@mmu.ac.uk

Undercover Coding

(Y5 to Y9 – Brooks)

Computer coding has been made part of mainstream curriculum from primary to GCSE options. Due to shortages in specialist teachers, this area has been identified as one in need of extra opportunities and special provision.

Drawing on our experience within the Education Faculty we have devised a variety of playful interventions designed to communicate the fundamentals of computer coding. These experiences draw on various interests close to the existing experience of young people to teach coding as a secondary activity.

Opportunities include: music making with lines of code with Sonic Pi, using Microbit and Codebug microcontrollers and LED lights to play with wearable technology and textiles, use of art materials to create simple paper circuits.

For further details on any of the above activities, or to ask any questions on how we could work together, please contact edlab@mmu.ac.uk



Story trails and learning maps

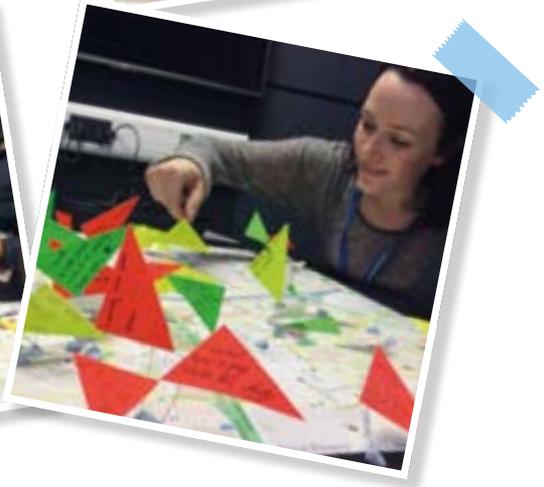
(Y5 to Y13 – Manchester Campus)

EdLab have been developing learning activities involving physical maps and the storytelling potential of mobile technologies. Our aims have been to explore ways we can situate ourselves in a complex world in a playful way. Key elements include the use of mobile devices, QR codes, treasure hunts, local history and story trails.

We have a series of activities, workshops and associated resources which take a playful look at local learning, history and the transmission of stories. We use huge maps to gather information from participants and then head out to explore the area for local stories both factual and fictional. Together, we discover the power of knowledge embedded in the community.

Optionally, we use this experience to spark more in-depth sharing and recording of stories and experiences of participants. This process can be adapted to encourage communication and digital publishing skills at various levels.

If you are interested to explore how you could use this process with your group please contact us on edlab@mmu.ac.uk



Cheshire Campus Curriculum events for Year 7-11

Exercise and Sport Science

The Department of Exercise and Sport Science is one of the most successful in the area of Exercise and Sport Science in the UK. The Department offers undergraduate degree programmes in; Exercise and Sport Science, Coaching and Sport Development, Physical Education and Sport Pedagogy and three Combined Honours Programmes (Coaching Studies, Sport Development and Sport).

The department offers taster days for secondary schools, sixth form and college students. Led by current students the taster days give participants the chance to sample life as an Exercise and Sport Science student and interact with current students and staff, as well as sample activities linked to our undergraduate degree programmes. Workshops can be tailored to suit the age, ability and specific requirements of the group and will engage participants across a number of different topics such as; biomechanics, coaching, physiology, psychology and sport development.

To arrange your schools taster day or for further information please contact Gareth Smith on g.a.smith@mmu.ac.uk



Manchester Metropolitan University Football Academy

The Manchester Metropolitan University Football Academy, is open to 16-18 year old males who study a BTEC First Diploma or BTEC National Diploma in Sport and train 5 days a week as a youth footballer. The academy is ideally suited to those wishing to pursue a career in the Sports Industry.

The Manchester Metropolitan University Football Academy is holding a series of coaching open days through the 2016/17 academic year. The coaching open days will be led by UEFA A and B Licensed coaches and will enable boys aged 14-16 to interact with current students and staff through a number of practical based sessions.

For further details please contact Gareth Smith on g.a.smith@mmu.ac.uk

Year 10 GCSE Physical Education 'Stretch and Challenge'

Suitable for Year 10 pupils

Led by staff and pupils from the departments Physical Education and Sport Pedagogy programme, the GCSE Physical Education 'Stretch and Challenge' Event enables pupils to take part in a range of practical and applied theory activities based on GCSE P.E. requirements.

The GCSE P.E. 'Stretch and Challenge' Event will take place in the summer term of the 2015/16 academic year.

For further details please contact Gareth Smith on g.a.smith@mmu.ac.uk

Department of Education – Sociology

Ada Nield Chew – Suffragette in Crewe Workshop

Suitable for Year 7-11

Pupils will use film, texts, archive documents and hands-on cultural artefacts which document the life and work of Crewe's most famous suffragette – Ada Nield Chew. Students will be encouraged to relate their enhanced understanding of the suffrage movement to their sense of themselves as socially and politically engaged. Together participants will produce creative responses to the workshop for display in your school.

The workshop is delivered by Orlagh McCabe (Senior Lecturer in Childhood and Youth) and Kirsty Bunting (Senior Lecturer in English Literature) and will take place over a half day on campus or in school.

The workshop is designed to develop students' understanding of local history, their community and their vital place and potential within that community and beyond. Students would also have the opportunity to 'blog' on the project website if they wish and to take part in the competition to design the project's logo.

For further details and for booking please contact schoolsoutreach@mmu.ac.uk

Outdoor Studies

Team Building and Problem Solving Activities

Suitable for Year 7-11

Learn how to work alongside fellow pupils to get your team through a spiders web, cross a river with wooden planks, win a team race with no feet on the floor or diffuse a model bomb. Team building activities promote communication, organisation, leadership and negotiation skills within groups and can introduce pupils to this area of study at University.

The workshops are led by qualified ambassadors who are Outdoor Studies students at Manchester Metropolitan University.

Workshop can be delivered on campus or in school in a suitable space, preferably outdoors.

For more information please contact schoolsoutreach@mmu.ac.uk



Ed Lab

A Taste of Forest School

Y7 to Y13 – Crewe Campus

Forest School is an method of educational provision which originated in Scandinavian countries, and has found increasing popularity in the UK in recent years.

It a method of outdoor education which emphasises connection with nature and autonomy, and facilitates cross-curricula learning and holistic development. The Faculty of Education at MMU Cheshire has developed a growing practical and intellectual expertise in Forest School provision – which we are able to make available to schools and pupils.

For younger pupils (up to 14 years), we can facilitate a forest school play experience intended to re-engage and refresh how they think about education – including practical activities, such as tools and fire, designed to develop team-building, self-esteem and aspiration development. For older pupils, we offer a practical experience which provides further opportunities to reflect upon the philosophies and practice of delivering forest school activity – ideal for those with an interest in study of education and childhood.

For further details on any of the above activities, or to ask any questions on how we could work together, please contact edlab@mmu.ac.uk

The University for
World-Class Professionals



Manchester
Metropolitan
University

Open Days



Come and visit us

Manchester

Saturday 8th October 2016

Saturday 15th October 2016

Saturday 26th November 2016

Wednesday 21st June 2017

Cheshire

Saturday 22nd October 2016

Wednesday 30th November 2016

Wednesday 28th June 2017

To find out more, and to
book your place go to
mmu.ac.uk/openday
or call **0161 247 6969**

Get social with
MMU. Search
'Manmetuni'

YouTube



Post-16 Schools and Colleges Activities

The Education Liaison Team provides information, advice and support to students, teachers, careers advisers and parents. We offer a wide range of activities to inform students about applying to university and studying at Manchester Metropolitan University. We can help your students prepare for university through:

- School visits including presentations and workshops on student finance, preparing for university, how to apply and the UCAS applications process
- Manchester Metropolitan University drop-ins and roadshows
- Student Panels
- Campus visits
- Subject Tasters

For more information on how our Education Liaison Team can help you and your students, please e-mail edliaison@mmu.ac.uk or call **0161 247 5988**.



Hosting an HE Event

The Education team host information stands at Careers or HE Fairs, where students or parents can ask any questions about Manchester Met University, courses and going to university. In addition, students can also order a prospectus and receive advice about entry requirements, applying to university and student life.

The Education Liaison Team also attend UCAS conventions across the UK. To find out more or to invite us to your event, contact the Education Liaison Team on e-mail: edliaison@mmu.ac.uk or call **0161 247 5988**.

Activities for Adult Learners

We offer an interactive presentation that covers various aspects of the preparation, research and application process for university study. The topics covered in the session are:

- Is university for me?
- Courses available
- Understanding academic entry requirements and other entry criteria (e.g. work experience, interviews, auditions etc.)
- The application timeline
- Financial considerations
- Sources of information and next steps

For further information visit www.mmu.ac.uk/mature or call **0161 247 5988**.

Open Days

Open days are a great way for your students to find out what to expect when they move on to Higher Education. We put together an extensive programme of talks, tours and activities for visitors so they can find out about our courses and collect information on applying to university. They also have the chance to meet our current students to hear about what it's really like to move on to university. If you would like to bring a group to visit, our Open Days this year will take place on:

Manchester Campus

Saturday 8th October 2016
 Saturday 15th October 2016
 Saturday 26th November 2016
 Wednesday 21st June 2017

Cheshire Campus (Crewe)

Saturday 22nd October 2016
 Wednesday 30th November 2016
 Wednesday 28th June 2017

To find out more, and to make a group booking visit www.mmu.ac.uk/openday or call **0161 247 6969**.



Post-16 Schools and Colleges Activities for Teachers and Advisers



Getting to grips with UCAS – Reference writing and advising students how to write personal statements

The presentation aims to give an overview of the personal statement and reference sections of the UCAS application and how these are used to support decision making. These sessions are for all staff who offer support to students applying to university. Our sessions cover:

- How to write a good personal statement
- Appreciate what admissions tutors are looking for
- How to write an academic reference that makes a real difference for your students applications

For more information on how our Education Liaison team can help you and your students, please contact email edliaison@mmu.ac.uk or call **0161 247 5988**.

Annual Teachers and Advisers Conference

We host a free, annual conference aimed at teachers and careers advisers who play a key role in supporting students with applying to university and advising about higher education choices.

As well as providing an ideal opportunity for professional development and networking, the event identifies key changes and developments at Manchester Metropolitan University and within the sector.

To find out more please visit www.mmu.ac.uk/post-16



Money Matters – getting to grips with student finance

The presentation gives an overview of the student support package and how you can help your students prepare for managing their money at university. Our sessions cover:

- Funding your studies – what financial support is available?
- When and how to apply for the student support package?
- The costs of studying and tips on budgeting

For more information, please contact email edliaison@mmu.ac.uk or call **0161 247 5988**.

Inspire news

Our termly Inspire newsletters and monthly e-news have the latest information for teachers and advisers. Keep up-to-date with Manchester Metropolitan University news, events, and receive the latest information to help you advise your students applying to university. Join our mailing list or download copies of latest issue of Inspire newsletter at www.mmu.ac.uk/schools-colleges

Helping your students to make the right choices

Ensure your students are making informed choices by encouraging them to conduct their research in a number of different ways. At Manchester Metropolitan University we offer information, advice and guidance through various channels:

Talk to us

Meet our tutors and students and experience our facilities first hand at an Open Day.

www.mmu.ac.uk/openday

FAQ's on courses, finance, accommodation visit mmu.ac.uk/ask

For more advice and specific questions, call us on **0161 247 6969** or visit www.mmu.ac.uk/course-enquiry

Arrange for Manchester Metropolitan University representatives to visit your school or college.

Email: edliaison@mmu.ac.uk



Curriculum Enrichment Activities for Post-16 learners

Science and Environment

College Analyst Competition

Suitable for Year 12

This activity is the regional heat of the national Chemistry Competition. Groups from colleges work in the laboratory on a chemical analytical problem and report the results. This activity is delivered in the summer term with the Royal Society of Chemistry (RSC).

More information can be found at:

<http://www.rsc.org/Membership/Networking/InterestGroups/Analytical/SchoolsComp/>

Outdoor Studies

A Level Enrichment Day

Suitable for Year 12

Led by staff and pupils from the departments Physical Education and Sport Pedagogy programme, the A Level Enrichment day enables Year 12 and 13 students to engage in a range of practical and theoretical activities aimed at increasing their performance in various aspects of GCE Advanced Physical Education.

The A Level Enrichment Day will take place in the summer term of the 2015/16 academic year. For further details please contact Gareth Smith on **g.a.smith@mmu.ac.uk**



