Your guide to what’s on at

Wonder

Saturday 17 June 2017, 11am – 5pm
University Park, FREE
Welcome to Wonder

We can’t wait to show you all of the amazing things that happen at the University of Nottingham.

As you travel around University Park you’ll be able to experience our groundbreaking research and world-class teaching first-hand by taking part in a huge variety of exciting family-friendly activities.

Have you ever wondered what Mars looks like, what your skin’s made of, how planes can fly, why T-rex had tiny arms or how Vikings fought? These are just some of the questions we’re excited to answer for you here today.

Recommended ages
Some of the activities taking place today are suitable for children over a certain age. We’ve highlighted them in the programme, as a guide, with these symbols:

Prefer to go digital?
You can download the Wonder app from

Search: UoN Wonder 2017

The app includes all of the programme listings and can help you navigate your way around campus. You can also collect reward points and claim a free hot drink! Jump onto our wifi by visiting nottingham.ac.uk/go/wifiwonder. You’ll need to fill in a quick registration form and then log in.

Key to Symbols
We have used symbols in this guide to highlight the following warnings:

Messy activity
Activity may involve loud noises
Activity includes the production of smoke
# Finding your way around

To help you get around the event, we’ve split the campus into five zones. Take a look at the handy map on page 20 for details. We’ve also arranged this event guide by zone and by building. There’s an information point in each zone which you can use to help find your way around.
Zone 1

Nottingham Lakeside Arts

Raiders of the lost park
Adventure awaits on this fun, self-led nature trail. You will face a series of challenges, riddles and tasks that will lead you from the Museum, through Highfields Park and around the lake. This activity will test your teamwork and puzzle-solving skills while finding out more about our lovely parkland. If you’re lucky, you might catch a glimpse of an amazingly rare species – Hunter the Dinosaur! Your adventure starts at the Museum.

Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Pick up your map from University of Nottingham Museum

Dinosaur detective
Join intrepid explorer and fantastic teller of tales George Thorpington the Third who has returned from the deserts of Mongolia to share his adventure stories. Using treasures from his grandfather’s attic, the famous dinosaur hunter George Thorpington will ask you to help him piece together the story of the dinosaurs.

Time: 1–2pm and 3.30–4.30pm
Location: Performing Arts Studio, DH Lawrence Pavilion
Marvellous manuscripts
Our Manuscripts and Special Collections team holds over 3.5 million manuscripts from all over the world. Explore our stunning India collections and learn about life under the East India Company. Take our quiz, design a badge based on traditional patterns, have a go with a quill and much more. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Meeting Room 1 and Weston Gallery, DH Lawrence Pavilion

An exhibition by Alison Duddle: Puppets and masks
A fascinating exhibition of objects and puppets originally created by the maker Alison Duddle for the renowned touring company, Horse + Bamboo, featuring characters from many well-loved tales as well as some from original stories. Come along to draw and create your own puppets, and contribute images of your creations to our Facebook page. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Wallner Gallery, DH Lawrence Pavilion

University of Nottingham Museum

Medieval multicolour
Learn about the fascinating world of colour in the medieval period. The Museum will be offering activities for all of the family including stained glass making, wool dyeing, ink-making, calligraphy and manuscript illumination. You can also find out how medieval people made colour from the nature around them. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: University of Nottingham Museum
Outside Lakeside Arts

Create a mini sculpture park &
In anticipation of the Djanogly Gallery exhibition Kaleidoscope we are inviting visitors to make a mini sculpture park. Artist Sarah Palmer will be on hand to help. Enjoy an abundance of colourful materials to choose from and space to play.
Time: 11am–5pm, drop in anytime
Location: Behind DH Lawrence Pavilion

The amazing material detective and the case of the superbug 🎓
On this quest become a detective and complete challenges to find the right material for medical devices, targeted drug delivery or regenerative medicine. On your quest you touch artificial organs, throw ‘drugs’ at targets and splat bacteria to identify the material. There is a small prize for successful detectives!
Time: 11am–5pm, drop in anytime
Location: Near the DH Lawrence Pavilion (if wet weather, Pharmacy Building, room A01)

Todd Landman rides blindfolded around Highfields Lake
In 1945, Kuda Bux, an Indian magician known as the ‘Man with the X-Ray Eyes’, rode a bicycle through Times Square in New York City completely blindfolded. At Wonder, come and watch Professor Todd Landman attempt a similar feat around Highfields Lake. Todd’s daring deed is raising money for the Children’s Brain Tumour Research Centre at the University. To sponsor him visit justgiving.com/fundraising/Todd_Landman1 or donate via one of the collection buckets on campus. Don’t try this at home!
Time: 12 noon
Starting point, Djanogly Theatre, DH Lawrence Pavilion
The babble machine

A retro-futuristic sound sculpture inspired by HG Wells. Bringing back to life the golden age of radio, it plays back broadcasts and public announcements from the pre-TV era. Hear rare gems from the archives and learn how the world used to sound.

Suitable for all ages.

Time: 11am–5pm, drop in anytime
Location: Amphitheatre, DH Lawrence Pavilion

Pharmacy Building

STARs: Star jumps and random sweets

Come and take part in a ‘real’ randomised controlled trial. Some participants will eat a sweet first and then do 10 star jumps and others will do the 10 star jumps first and then eat the sweet, but who will perform the quickest?

Time: 11am–5pm, drop in anytime
Location: Building foyer

Skullduggery

Ever wondered what the skull of a lion looks like? How many bones does it have? How big are the teeth? Come and examine a selection of real animal skulls, and then have a go at creating one with modelling clay. All model skulls will take pride of place in our Wonder museum.

Time: 11am–5pm, drop in anytime
Location: Building foyer

Insight inside – body repair

When the body can’t repair itself from damage, it needs some help. We’ll show you some of the techniques used in regenerative medicine, with 3D printing, make your own biomaterials and view cells down the microscope.

Time: 11am–5pm, drop in anytime
Location: Building foyer
Marvellous medicine
Many people rely on medicines, but how do they get to the places in your body where they are needed? And can we stop medicines affecting parts of the body where they may do harm? These hands-on activities will demonstrate the principles behind some of our research. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Building foyer

Cosmetics unwrapped
Ever wondered what goes into the stuff you put on your skin? What makes it moisturising? What makes it smell nice? Come and join us to find out! You’ll get the opportunity to design (and keep) your own cosmetic packaging or adverts, plus an opportunity to participate in a research survey. Suitable for all ages. Some items on display are allergens, please do not touch if you are allergic.
Time: 11am–5pm, drop in anytime
Location: Professional development space, next to building foyer

My flexible brain
How do you know you have a body? How do you know where you are or what shape you are? Our fun, interactive games demonstrate how the brain builds a map of your body and space around you. You might feel completely different - or even forget where you are!
Time: 11am–5pm, drop in anytime
Location: Room A06
Zone 2

Chemistry Building

The clean green machine
Join us for an extravaganza of energy-related activities including a global warming experiment and demonstrations in enhanced oil recovery, solar and wind power, the national grid, rising sea levels, plus take part in our energy game. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Building foyer

Can scientists save the planet?
This interactive session shows the impact of CO₂ in our atmosphere. View the biodiversity in our ecosphere using a microscope worth only £8! Chemists, biologists and engineers will chat about sustainability issues alongside a showcase of our projects and the new Carbon Neutral Laboratory. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Building foyer

The lighter side of chemistry
Nottingham’s world-renowned science and social media sensation, Professor Sir Martyn Poliakoff will be performing live science experiments which demonstrate reactions that produce or use light, and how his research can harness light energy to carry out chemistry in more sustainable ways. This demonstration contains loud bangs and smoke. Please be aware you may have to queue for entry, and places will be offered on a first come, first served basis.
Time: 11.30am–12.30pm
Location: Lecture Theatre X1
Coates Road Auditorium

Extreme materials lecture
Watch our tame chemical engineer burn, cut, smash and crush materials in an exciting series of live and loud experiments. See us push the ordinary to the extraordinary! Spaces available on a first come, first served basis. Experiments include flashes.
Time: 2–2.40pm
Location: Coates Road Auditorium

Engineering and Science Learning Centre

Engineering design showcase
Interested in designing and making things? Come and discover some weird and wonderful engineering design ideas for products of the future.
Time: 11am–5pm, drop in anytime
Location: Atrium

A trip into the bio world
Learn how natural resources and processes can be used to build a better, more sustainable society. See how we use cells and enzymes to make chemicals and to treat water and waste. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Room B01
Othello at the casino
Try your luck at the roulette table (no real money involved!), and learn aspects of the strategy for the board game Othello. You can also try other games and puzzles and develop your problem-solving skills while chatting to staff and students.
**Time:** 11am–5pm, drop in anytime
**Location:** Room B01

Eating, cats, and dogs: The ancient roots of modern English
This talk takes a humorous look at the ancient origins of everyday words. We’ll think about three seemingly ordinary words ‘eat’, ‘cat’ and ‘dog’, and discover their connections in 40 different languages.
**Time:** 11.15am–12.15pm and 2–3pm
**Location:** Room B02

Writing without an alphabet: How to write in Linear B
Find out what writing looked like nearly 3,500 years ago. Make your own tablet out of clay, and then have a go at this ancient style of writing. You can even take your tablet home with you.
**Time:** 12.30–1.30pm and 3.15–4.15pm
**Location:** Room B02

The micro world of nature
Have you ever wondered what plants and insects look like magnified up to a quarter of a million times? Come and explore our micro-world exhibition and see them as you never have before. Be a detective and use our microscopes to help solve the mystery of the missing spiders.
**Suitable for all ages.**
**Time:** 11am–5pm,
drop in anytime
**Location:** Room B07
Little linguists
A fun activity for children involving singing and games in foreign languages. Suitable for ages 6 – 10. Limited places available, first come first served.
Time: 2–2.25pm, 2.30–2.55pm, 3.05–3.30pm and 3.35–4pm
Location: Room B12

Growing mental muscles
Practice growing mental muscles with mindfulness. Meet our mindfulness teachers and hear about how mindfulness is being taught to children in schools and adults in the workplace.
Time: 11.30am–12.30pm and 3.30–4.30pm
Location: Room B13

Share your day
We’d love to see your smiley faces enjoying Wonder!

Don’t forget to use #WonderNotts when you post your photos on social media. We’ll be sharing the best.
How to spot fake news! 11+
What is fake news? This session will look at social media’s role in the spread of fake news and include discussions on what is fake, how to identify these stories and ways to verify information found online.

Time: 2–2.40pm
Location: Room B13

Chinese zodiac story workshop
Learn and practise Chinese culture through our Chinese zodiac stories, make your own zodiac animal headband, and try out Chinese calligraphy. Suitable for all ages.

Time: 11.30am–12.15pm, 12.30–1.15pm, 2.15–3pm, 3.15–4pm and 4.15–5pm
Location: Room B14

The great arts quiz 5+
Explore the diversity of arts and humanities by taking part in our interactive quiz. Find out how studying subjects from archaeology to film help us make sense of the world around us. No previous knowledge is required and all contestants will receive a prize!

Time: 11am–5pm, drop in anytime
Location: Room B15

Say hello to Alice 5+
Inspired by the book Alice in Wonderland we’ve created our very own artificially intelligent Alice. You can come along and talk to Alice about her book, and she’ll read your emotions and interests. But beware, she gets distracted easily, and interrupts you if she gets bored!

Time: 11am–5pm, drop in anytime
Location: Room B16
‘Ears to hearing you!
Nottingham is a world-respected centre of hearing research activity. Join us for hands-on interactive activities to gain an insight into hearing conditions, experience fascinating hearing illusions and test your own hearing limits. Drawing and craft activities are available, including the popular ‘brain cap’.

Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Room C01

Practise your funny walks
Most of us take putting one foot in front of the other for granted. Have you ever thought about how you walk, how long your stride is or if you shuffle? Come and try our interactive electronic walking mat to find out more. You can also have a go at our instant ageing kit to see how you might grow old disgracefully!

Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Room C01

University inventions – past, present and future
University of Nottingham researchers invent more than 100 new technologies each year. Come and view a showcase of our latest inventions, and tell us what our University inventors should develop next!

Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: B floor landing outside B07 and B08
Zone 2 Marquee

So, you think you know America?
Test your knowledge, discover more about iconic people, places, sounds and sights, and explore the diversity of America. In this interactive game, connect clues about music, film and television, novels, historical events, famous faces and buildings to places on a map of America. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

You say potato...
Language is an intrinsic part of our everyday lives and, whether we realise it or not, we make many judgements about people based on the language they use. But does this matter? And what are the consequences?
Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

The new sounds of modern German
Visitors will be able to listen to and read about how new developments in German society are reflected in German hip hop music and youth language – this is the German that they don’t teach you at school!
Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

The art of Chinese calligraphy
The history of Chinese calligraphy goes back as far as China itself. It is both the highest form of art and most common literal practice by ordinary people. Discover beautiful masterpieces, see your name written in calligraphy and try out this art form yourself. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee
The wonder of words

Come and discover the wonder of words, through demonstrations and displays from the School of English. Encounter the extraordinary worlds of the Vikings, Shakespeare, DH Lawrence and Lord Byron; take part in our quizzes and experiments both dramatic and syntactic.

Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

The lives and times of Vikings and Anglo-Saxons

Find out about how people lived 1,000 years ago. Read runes and learn about customs and names from this time. These activities are based on cutting-edge research in the School of English into the Anglo-Saxons and Vikings.

Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

See and hear the future in 3D

From novel airport interiors to hearing loss education, come and experience how we use virtual reality with audio games and 3D films. Suitable for all ages. This activity uses over the ear headphones and virtual reality headsets.

Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

Love your liver

Learn about the liver research the University undertakes in the Nottingham Digestive Diseases Centre. Find out how to love your liver and treat it with care.

Time: 11am–5pm, drop in anytime
Location: Zone 2 Marquee

Treat it right!

Investigate how to build a filtration system using a few everyday materials that can be used to treat polluted river water.

Time: 11am, 12noon, 1pm, 2.30pm, 3.30pm and 4.30pm
Location: Visit our stand in the Zone 2 Marquee, we will then escort you over to the L3 labs to take part. Activity is 30 minutes long.
Physics Building

Explore making and coding games
Come and explore a range of exciting science, technology, engineering and maths computers designed to develop coding skills. These computers and games offer the chance for young minds to innovate, create and shape the future!
Time: 11am–5pm, drop in anytime
Location: Room A1

Under pressure – the physics live show
A 45-minute show all about pressure and temperature. Pops and bangs, levitation, a cannon powered by absolutely nothing and an instant indoor rain cloud using liquid nitrogen and boiling water. Spaces available on a first come, first served basis. This show is not suitable for those with a heart condition or sensitive hearing, due to loud bangs and smoke.
Time: 1.30–2.15pm and 4–4.45pm
Location: Room B01

The wonderful world of the inflativerse
Come and explore the inflativerse – an inflatable planetarium which hosts a projection of the northern night sky. Enjoy a show about the sky at night, constellations and the ancient Greek myths behind these patterns. It will be dark inside the dome and attendees will need to crawl through an enclosed space.
Time: 11.30–12pm, 12–12.30pm, 12.30–1pm, 2–2.30pm, 2.30–3pm, 3–3.30pm and 3.30–4pm (please note a maximum of 25 people per show, spaces allocated on a first come, first served basis)
Location: Room B23
Physics Building continued...

Physics Buskers
The Physics Buskers perform tricks to amaze and entertain the whole family:

Physics tricks
See the giant wave pendulum, create a tornado in a bottle and make your own balloon kebab. Suitable for all ages.
Location: Foyer

The light fantastic 5+
Learn how fibre-optics work and how you can bend light with water. See cool glow in the dark stuff and make and take your own spectroscope.
Location: Foyer

Marvellous magnets 7+
Play with powerful magnets, make a simple electric motor using just a length of wire, a battery and a magnet, and learn how an MRI scanner works.
Location: Mezzanine

Time: All of the Physics Buskers’ activities are 11am–5pm, drop in anytime
Science Quad

Farmers’ market
Bringing the best local and fresh food from all over the East Midlands for a special, one-off market for Wonder 2017.
Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Science Quad (close to Zone 2 Marquee)

Let us know what you think!
We’d love to hear your feedback about Wonder.

It’ll only take a few minutes to complete our short survey and you’ll be entered into a prize draw where you could be in with a chance of winning tickets to the Dinosaurs of China exhibition at Wollaton Hall and Nottingham Lakeside Arts or a one hour session with the Gameslab where you can learn a game of your choice with expert tuition for up to four people (two sessions to give away)!

Visit nottingham.ac.uk/wonder to fill out the survey by 25 June 2017.
Toilets are located in every open building.
Wonder, Saturday 17 June 2017, University Park Campus
Postcode for sat nav NG7 2QL
Beat the neurosurgeon
This simple hand-eye-coordination puzzle is not only used to test trainee neurosurgeons, but also to check the functions of hands and eyes in people with brain tumours. See if you can beat your friends, or even our own neurosurgeon!

Time: 11am–5pm, drop in anytime
Location: High performance zone

Life in the lab
Would you like to have a go at being a research scientist? Come and see what healthy and poorly brain cells look like under the microscope, and try your hand at measuring liquids into test tubes, just like a real scientist! Suitable for all ages.

Time: 11am–5pm, drop in anytime
Location: High performance zone

Neuroradiology in action
Sometimes brain tumour surgery leads to patients being unable to speak. We are trying to develop a tool to predict this risk and we’d like to show you how it works.

Time: 11am–5pm, drop in anytime
Location: High performance zone

Smartphones for smart diagnosis
The back of your eye can reveal a lot about your health: a new app has been developed to view the back of the eye with the phone in your pocket. Come and find out more with us, and what this means for brain tumour research.

Time: 11am–5pm, drop in anytime
Location: High performance zone
Grants game
Can you decide where valuable funding will go? Which of our three projects gets your vote? Come along to our stand to learn more about the difficult funding decisions we face every day.
**Time:** 11am–5pm, drop in anytime
**Location:** High performance zone

What’s it like to lose your sight?
Sometimes children with brain tumours lose their peripheral vision: their sight blurs at the edges or starts to go away entirely. We’ve set up an interactive demonstration so you can experience what it’s like to have these symptoms, and we’ll tell you what we’re doing to stop it.
**Time:** 11am–5pm, drop in anytime
**Location:** High performance zone

Indoor climbing
Try our new indoor climbing wall in the David Ross Sports Village. Option of bouldering or roped climbing available.
**Minimum height restriction,** 1.10m.
**Time:** 11am–5pm, drop in anytime
**Location:** Climbing wall

Can you kick it?
Let the University’s Futsal Academy put you through your paces with this fun skills coaching session. Futsal is an indoor version of football. If you impress you could even win a prize! Suitable for all ages and abilities. You can also watch a match between current students and graduates at 2pm.
**Time:** 11am–4pm, skills sessions will start every 20 minutes
**Location:** Sports hall
Yoga, zumba and box fit tasters
Have a go at one of our 30 minute fitness class taster sessions. No specific attire required, just turn up on the day. Suitable for all ages.
Time: 2pm – box fit, 2.45pm – yoga and 3.30pm – zumba
Location: Studio 1

Alumni chill and grill BBQ
Join us for a delicious BBQ exclusively for alumni from 12–3pm. Take a break from the action-packed activities and bring up to three guests along to enjoy refreshments on us. Catch up with fellow alumni, cheer on our teams as the annual Sports Challenge takes place on the pitches below, and enjoy a tour of our world-class sports facilities. Please note that this is for alumni who have pre-booked online only.
Time: 12–12.45pm, 12.45–1.30pm, 1.30 –2.15pm, 2.15–3pm.
Tours of David Ross Sports Village will be running every 20 minutes on a drop-in basis.
Location: David Ross Sports Village balcony

Meet Paralympic swimmer Ollie Hynd MBE
With two gold medals and one silver medal from the Rio 2016 Paralympics, our very own Notts para-swimmer, Ollie Hynd MBE, will be giving an inspirational talk about his sporting career and answering your questions. As he prepares for the Olympic Games in Tokyo 2020, Ollie trains regularly at the University’s David Ross Sports Village, so is no stranger on campus.
Suitable for all ages.
Time: 12–1.30pm
Location: Studio 1
Learn lifesaving skills
Meet students who volunteer with the East Midlands Ambulance Service and find out what they do. Learn CPR and practise with training equipment under the direction of our qualified volunteers.
Time: 11am–5pm, drop in anytime
Location: Outside David Ross Sports Village

Enjoy the fruits of the Orchard Hotel
Sample our apple & mince pies, learn about the campus hotel facilities and take part in our children’s colouring and cake decorating competitions. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Outside David Ross Sports Village

Can you support our life-changing research?

Wonder is free but if you’ve enjoyed the day you may wish to donate to our pioneering research into children’s brain tumours as part of Life Cycle 7.

10 children are diagnosed with a brain tumour every week.

You can help by giving at any of the collection points around campus or you can visit our Life Cycle 7 stand in the high performance zone at David Ross Sports Village.
Making a difference to people’s lives
Have a taste of life as a student of nursing, midwifery, physiotherapy and sport rehabilitation sciences by working alongside our staff, current students and practitioners.
Time: 11am–5pm, drop in anytime
Location: In a marquee outside David Ross Sports Village

Humanities Building

Digital time travellers
Want to be a famous ancient monarch with your own currency? Join us to get your noble portrait put on a digital coin – complete with ancient headgear! We will email you a digital version of your coin, complete with portrait, after the event. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: The atrium

Hands on the ancient world
Come along and handle genuine artefacts from ancient Greece and Rome, including coins that are over 2,500 years old, pieces of Roman pottery, gold coins and many more. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: The atrium

Mint imperials
Learn how modern viewing techniques allow us to shed light on ancient technology, and see the miniature marks made by tools in the process of creating ancient coinage – and how to spot fakes!
Time: 11am–5pm, drop in anytime
Location: The atrium
Zone 3 Marquee A

**Funny bones**
Come and discover facts you didn’t know about the human skeleton. Can you name all the bones? Do you know how children’s bones grow? There will be demos of fracture healing by the major trauma team, and advice on how to keep your bones strong.
*Suitable for all ages.*
*Time: 11am–5pm, drop in anytime*
*Location: Zone 3 Marquee A*

**Living with osteoarthritis**
Find out more about your musculoskeletal health, keeping fit and how living with osteoarthritis affects daily life.
*Suitable for all ages.*
*Time: 11am–5pm, drop in anytime*
*Location: Zone 3 Marquee A*

**Tackling tumours**
Come and see how cancer researchers are trying to understand hard to treat regions of tumours. Look at these down a microscope and see if you can guess where they might be.
*Time: 11am–5pm, drop in anytime*
*Location: Zone 3 Marquee A*

**Your wonderful skin**
Find out more about your skin and how wonderful it is. Make a model of your skin from sweets or craft materials and discover the difference between healthy and eczema prone skin.
*Suitable for all ages. The skin sweetie model is not suitable for those with nut or dairy allergies.*
*Time: 11am–5pm, drop in anytime*
*Location: Zone 3 Marquee A*
Health check for teddy, healthy changes for you
Bring along your poorly teddy bear to see our teddy doctors! Through play, we’ll help children learn about health and what to expect when visiting the doctor. Grown-ups can join in too and find out about how to keep your heart healthy. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Zone 3 Marquee A

Getting lost, or not? 🕵️‍♂️
Can you find William the Worm? Through this fun computer test you’ll see how memory may be affected by arthritis pain. May cause motion sickness.
Time: 11am–5pm, drop in anytime
Location: Zone 3 Marquee A

Test your hand strength 🤸‍♂️
Use a handgrip to measure strength on each hand to show the difference between your left and right. You’ll also have a chance to learn about your own BMI.
Time: 11am–5pm, drop in anytime
Location: Zone 3 Marquee A

Zone 3 Marquee B

GASP! Remarkable respiratory 🏮
Take part in a range of fun and hands-on activities learning about the lungs and lung diseases. There will also be an opportunity to use the incredible Virtuali-Tee which shows lungs, hearts and other major organs through augmented reality that allows you to dive in and explore the human body.
Time: 11am–5pm, drop in anytime
Location: Zone 3 Marquee B
New technologies for mental health

Play ‘Eye Asteroids’, a computer game which lets you blow up asteroids by moving your eyes! You’ll be able to create avatars on screen and then use them to explore different emotions.

**Time:** 11am–5pm, drop in anytime  
**Location:** Zone 3 Marquee B

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Regenerative medicine: a journey from bench to bedside

Learn the basics of regenerative medicine by seeing your own cells and how they may be used to heal. **Suitable for all ages.**

**Time:** 11am–5pm, drop in anytime  
**Location:** Zone 3 Marquee B

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The effects of smoking

Come and learn through interactive experiments how smoking affects the body and those around us. We’ll explain why nicotine is addictive and how we can help people to stop smoking. Children can also get involved with our quizzes and poster making activities.

**Time:** 11am–5pm, drop in anytime  
**Location:** Zone 3 Marquee B

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The wonderful world of dogs

Come and meet our dogs and learn how to do a veterinary examination. You will use a stethoscope to listen to a dog’s heart and to check pulses, and examine coat condition and general health. You’ll also learn the unique features of dogs that make them man’s best friend. **Suitable for all ages. Not suitable for those with a dog allergy.**  
**Time:** 11am–5pm, drop in anytime  
**Location:** Zone 3 Marquee B
Discover the #BeastsofUoN
Who are the #BeastsofUoN? Find out more about the wildlife on campus at University Park, make a #BeastsofUoN souvenir to take home, and explore our wildlife photo competition. Suitable for all ages. 
Time: 11am - 5pm, drop in anytime 
Location: Level 1 (including an outside activity trail)

Interactive storytelling – Viking Sagas
Discover the University’s library collections and uncover your inner storyteller. Help to create a story and build your own characters. These are hands-on sessions for all ages, from messy maker for younger children to graphic novels for older ones. 
Time: 11am - 5pm, drop in anytime 
Location: Level 1

Viking and Anglo-Saxons battle
Step back 1,000 years in time to watch Vikings and Anglo-Saxons clash in a thrilling battle. Afterwards, discover more about these fascinating people and examine authentic reproduction clothing and weapons with the help of students from our Medieval Combat Society. Suitable for all ages. These are live shows featuring fighting which may upset younger children. 
Time: 2.10–2.25pm and 3.05–3.20pm 
Location: In front of Hallward Library
New Theatre Garden

We invite you to enjoy an exciting range of performances and open air speaker’s corner talks in the beautiful surroundings of New Theatre Garden.

**Talk: Doctor Who & evolution in time & space** *Time: 11.45am–12noon*

Luckily, Doctor Who has already explored some big ideas in evolution, and we’ll look at the real science behind them.

**Show: Qipao fashion show** *Time: 12.05–12.25pm*

Watch our students model the graceful and enchanting traditional Chinese dress of qipao.

**Show: Rock Choir** *Time: 12.35–1.05pm*

Experience the power of music through the Rock Choir.

**Talk: Dinosaurs of China: Ground Shakers to Feathered Flyers** *Time: 1.10–1.25pm*

Hear about the recently discovered feathered dinosaurs in China, and the exciting exhibitions on display at Lakeside Arts and Wollaton Hall this summer.

**Talk: Tyrannosaurus: a farewell to arms** *Time: 1.30–1.45pm*

A look at how animals developed wings, flippers and arms, and what the tiny arms of T-Rex were for.

**Show: Qipao fashion show** *Time: 1.50–2.05pm*

Watch our students model the graceful and enchanting traditional Chinese dress of qipao.

**Show: Rock Choir** *Time: 2.30–3pm*

Experience the power of music through the Rock Choir.

**Talk: Sweet like chocolate** *Time: 3.25–3.40pm*

What makes chocolate taste so good? Come and taste some to find out!

**Talk: Being Sherlock Holmes: Can you read people’s minds?** *Time: 3.45–4pm*

A fascinating insight into how we can read people’s behaviour to work out how they’re feeling.
New Theatre Garden

Spineless science
Join in with a bug hunt, learn about life in the leaf litter and the world of earthworms and meet some amazing arachnids.
Suitable for all ages.
Time: 11am–5pm, drop in anytime. Plus bug hunts taking place at 11.30am, 1pm and 2pm
Location: Next to the chessboard

Flair skills
Can you juggle a cocktail shaker? Join us for this exciting opportunity to learn the tricks and skills of flair bartenders. A great way to impress your friends and family!
Time: 11am–5pm, drop in anytime
Location: Near New Theatre Building
From denning to dancing:  
The unnatural history of bears

Did you know brown bears used to live in the Peak District? Not many people do! This lightning talk will introduce the role of bears in human culture from Ancient Greece to the present day, including teddy bears, bear-baiting, and rewilding. Our life-size bear will also be available for #bearsselfies.

**Time:** 1.30–1.40pm and 3–3.10pm  
**Location:** Room A39

Inside your insides with MRI

Super-powerful magnets, spinning atoms and radio waves being used to make pictures of your insides. Sounds like science fiction?! But this happens every day in hospitals around the world. Find out how MRI scanning (invented in Nottingham) works and is used in our research into all sorts of diseases.

**Time:** 12.15–1pm and 2–2.45pm  
**Location:** Room A39

“Can you hear me?”

How do we hear? Join us for an interactive seminar and take part in hearing ‘experiments’. Hear high-frequency bat echolocation calls, and even the Earth’s own atmosphere. The seminar will be an immersive experience for a wide range of ages.

**Time:** 2–3pm  
**Location:** Room A40
Massacre the microbes!  
Find out how bacteria stick to surfaces where they lurk ready to infect. Use all your water pistol skills to destroy their communities and discover how antibiotics protect us.  
**Time:** 11am–5pm, drop in anytime  
**Location:** Room A42

Lighting up the microscopic world  
Take a fantastic voyage inside our body’s cells using our powerful microscopes. View miniature glowing biological molecules at work, and learn how medicines hijack these natural systems.  
**Time:** 11am–5pm, drop in anytime  
**Location:** Room A42

Bugs, biofuel and biosphere  
Have you always thought that all bacteria was bad? This is not always the case as the threat of global climate change intensifies, bacteria may help us find wonderful practical alternatives to fossil fuels. Come and see the science behind how we make bacteria turn unwanted waste gases into fuels and chemicals! **Suitable for all ages.**  
**Time:** 11am–5pm, drop in anytime  
**Location:** Room A42

Find your ‘chi’ and boost your wellbeing!  
Join us at China Corner to discover the essence of Tai Chi, and listen to how you can employ Chinese Tuihna massage to help you reduce stress and improve quality of sleep. Chinese games and taster sessions in Yongchun Kungfu also available for children. Spaces available on first come, first served basis.  
The speaker will teach participants how to massage their own acupoints, so this activity is not suitable for people with hypertension or heart disease.  
**Time:** 11.30am–12.30pm, talk on Tuihna massage: releasing stress  
12.30–1.30pm, Tai Chi demo and taster  
1.30–2.30pm, talk on Tuihna massage: improving sleep quality  
2.30–4.30pm drop in children’s games and Kung Fu taster  
**Location:** Room A44
Wonders of flight ⭐
Professor Morvan will introduce the ‘wonders of flight’ in a mind-opening 20 minute lecture. This is an interactive fun, fact style lecture designed to amuse and stretch imaginations. Spaces available on first come, first served basis.
**Time:** 12.45–1.15pm and 2.45–3.15pm  
**Location:** Room A48

Start your engines, get set, ready, go! ⭐
Learn how the jet engine works, compete in an engine building challenge and take a journey through one of Rolls-Royce’s jet engines using our interactive iPads. You can also speak to the team and learn about careers at Rolls-Royce.
**Time:** 11am–5pm, drop in anytime  
**Location:** Café (open space at the end of corridor)

CSI geography ⭐
Become a private investigator and use geographical forensic techniques to discover the truth and how this relates to our work in geography.
**Time:** 11am–5pm, drop in anytime  
**Location:** Room A59

Worlds of wonder ⭐
Imagine a world beyond this one... Take a trip into the future, back to the past, through lands of dragons and up into space with the Role-Playing & Wargames Society’s games and activities.
**Time:** 11am – 5pm, drop in anytime  
**Location:** Entrance corridor
Flight simulator experience
Have a go at sitting in an aeroplane cockpit and experience the excitement of piloting an aircraft! Suitable for all ages. Not suitable for those with epilepsy or who suffer from motion sickness.
Time: 11am–5pm, drop in anytime
Location: Café

MarsCAPE 🌟
Ever wondered what the surface of Mars looks like? Come and see for yourself with our table top model. You’ll even see images of Mars that you’ve never seen before, a must for any space fan!
Time: 11am–5pm, drop in anytime
Location: Café

Network diagnostics 🔗
Come and explore new ways of understanding the digital world and our position as humans within it.
Time: 11am–5pm, drop in anytime
Location: Entrance corridor

Tours: Discover the architecture and landscaped gardens of University Park 🌟
Learn the amazing history of University Park. Visit our stand to book your place on either the heritage or garden tour. Maximum 20 spaces per tour. Spaces allocated on a first come, first served basis. The walk will be 90 minutes long so may not be suitable for small children.
Time: Heritage tour at 1.30pm, garden tour at 2pm (please arrive at the stand 15 minutes before the walk departs)
Location: Entrance corridor

Love where you live
Come and help us build a community wall, and see how high we can make it on the day. We will give you a brick to decorate with words and drawings showing us what you love about where you live. Suitable for all ages.
Time: 11am–5pm, drop in anytime
Location: Entrance corridor
Things you need to know

Places to eat

Zone 1
Gallery Café: 9am–5pm
Pavilion Café: 9am–5pm

Zone 2
George Green Library: 10.30am–4pm
Coates Café: 10am–4.30pm

Zone 3
David Ross Sports Village: 7am–5pm

Zone 4
Hallward Café: 10am–4.30pm

Portland Building
Mr Mans: 11am–5pm
Starbucks: 10am–5pm
Italia: 11am–4pm

Wonder app rewards
You can claim your free hot drink when you have reward points from the places to eat above, marked with this symbol – 😊

Transport & parking
For one day only Nottingham Community Transport are letting us use their new electric shuttle buses to transport visitors around campus. A continuous service will run from 10.30am–5pm, and the bus stops are marked on the event map (see page 20–21).

Accessibility bus
If you have mobility issues a bus will be on hand to transport you around the campus should you need it. Please speak to a steward helper on the day who will be able to call the bus for you.

Parking
Car parks are located on the event map, marked A – E. Parking is free throughout the day.

Shops and ATMs
There is a Boots and the Students’ Union shop on campus, you can find them in the Portland Building, on B floor. Cash points are available outside Santander and NatWest at the back of Portland Building (the banks themselves are not open).
**Lost property**
If you discover any lost property at Wonder please hand it in to the nearest steward or staff member. There is a stand in every zone where lost property will be held, these will be in the Chemistry foyer, David Ross Sports Village foyer, Sir Clive Granger corridor, Hallward library level 1 and Pharmacy Building foyer. If you realise you have lost something at Wonder after the event please contact us and we will try and help.

**Lost children**
If you come across a child who says they are lost or if you lose your child please alert the nearest steward or staff member near to you who will help.

**Fire alarms**
All buildings have fire alarms and fire detection systems. If you hear a continuous siren/bell, evacuate by the nearest exit. University staff will take control and call the emergency services if necessary.

**First aid**
Paramedics will be patrolling the campus throughout the day. There will also be a first-aider located in every building. If you need to seek first aid speak to a member of staff who will be able to assist or call for help.

All information in this programme is correct at the time of print, May 2017. Activity details may be subject to change, so please refer to this as a reference guide. Our Wonder app and website will host the most up to date listings information.

**Contact us**
If you need to contact the Wonder team, call 0115 951 3296
Saturday 1 July – Sunday 29 October
Nottingham Lakeside Arts & Wollaton Hall

In a unique partnership between Nottingham City Council and the University of Nottingham, Nottingham Lakeside Arts is thrilled to welcome the Dilophosaurus and an Alxasaurus to Lakeside as part of a world exclusive exhibition of feathered dinosaurs. Visit dinosaursofchina.co.uk for full exhibition information.
Superheroes of Nottingham – assemble!

Grab your capes and join our fancy-dress walk to help children fighting brain tumours.

What: A 5km walk – suitable for all the family

When: Sunday 1 October

Where: University Park, Nottingham

Cost: £10 (over 18s), £5 (12-18), under 12s free

10 children are diagnosed with a brain tumour every week. Together, we can make a difference.

Register or find out more at nott.ac.uk/superherowalk