



Hello,

New Scientist Live is delighted that your school will be visiting New Scientist Live 2019 and we hope you are all as excited as we are!

New Scientist Live is a wonderful opportunity for young people to experience STEM subjects beyond the classroom. A wealth of hands-on activities, immersive experiences and exciting talks by talented scientists bring the subjects they're studying to life. Our aim is to encourage the creativity and curiosity that children of all ages possess and ensure your students have a stimulating and rewarding visit to the show. Perfect for students of all ages, our dedicated schools' programme will inspire young people and educate (without them even realising).

This planning pack is focussed on making your school's visit is a success so please take the time to review the information and ensure that you have provided the required pre-arrival information.

Within this pack you will find details on pre-arrival and arrival logistics, some recommended talks, experiences and a show plan. We have also included a copy of our schools and groups risk assessment document and our public liability insurance document. If you require any further information or have any questions, please contact us at schools@newscientist.com

We look forward to welcoming you to New Scientist Live and hope you all have a wonderful time.

New Scientist Live Team

Before You Arrive

Plan Your Day

There is a lot happening at New Scientist Live, so we suggest that you take the time to plan your day and identify talks, features and exhibits you would like to see ahead of your visit. We have included some recommendations in this pack, but these represent a small proportion of everything there is to see, hear and do. Please visit the website www.newscientistlive.com to see the full list of what's happening.

Required Details

We require the following information in order to make the necessary preparations for your arrival. If you have not already provided this information, please send it to schools@newscientist.com as soon as possible.

- The name of your school
- The name and mobile number of the lead teacher
- If you are arriving by coach

Arriving at the Show

Coaches

If you are arriving by coach, please ensure you arranged parking at the ExCeL London. This can be done here: <https://www.excel.london/visitor/getting-here/driving-and-parking>

Stamps

Upon arrival you need to hand in your ticket at the show entrance (N6, N7, N8 and N9). Please ensure you bring print-outs of your tickets. When entering and exiting the show halls during the day, each person will have their hand stamped this provides them with re-entry into the show.

Security and Bag Checks

There will be security and bag checks upon entering the venue. To ensure that this process is as quick and painless as possible, please ensure that everyone in your party has their bag opened and ready to be checked. You can leave and re-enter the halls during the show, you will have your hand stamped. This will be checked for every time you exit and re-enter as well as your bags being searched each time.

Lunch

School groups are encouraged to bring packed lunches and refillable water bottles. There are many options to purchase food as well on the Boulevard. We have limited seating for schools to eat their packed lunches on our catering areas on the show floor. These can be located in the Earth zone (Stand 521) and in the Engineering zone (Stand 2221). To ensure that as many people can use this facility, please vacate the area as soon as you finished lunch. You may also consider scheduling your lunch break outside of peak lunch hours.

Facilities for Children with Autism and Special Needs

There will be facilities for children with special needs and autism available should you require them. However, these facilities are limited so we do ask that you alert us prior to the event if you have specific requirements and to alert a member of staff on the day so that they are aware.

Experiences

With over 150 exhibitors, it can be hard to pick where to start! Here is a list of features and exhibitors to use as a starting point on your journey of discovery! We have also attached a floorplan to start planning your day.

Incredible Creatures – Earth Zone – Stand 511

New Scientist Live has partnered up with The British Ecological Society to create an inspiring, educational experience showcasing exceptional images giving insight into the incredible creatures of the world. Be transported into tangled jungle, deep beneath ocean waves, and into the darkest night where creatures prowl. Gaze at dramatic images of the most spectacular wildlife we share our world with, all surrounded by wild sound recordings and even odours.

Within this immersive experience, you will also meet scientists from the British Ecological Society who work to uncover the secret lives of animals and discover how we can all help to solve the biggest challenges facing our natural world.

Operating Theatre of the Future – Humans Zone – Stand 921

Healthcare technologies are rapidly evolving. The convergence of Artificial Intelligence (AI), sensors, robotics, and medical imaging will have profound implications for hospitals, surgeons and patients globally. In the not-too-distant-future, robots could work alongside surgeons, implants could be created with a 3D printer, and AI-based algorithms could help clinicians achieve the currently unachievable. Are you ready to journey through a whole new world of healthcare technologies?

Step into the future of healthcare with this immersive experience and explore advancements from every step of the healthcare pathway: from diagnostics and imaging to surgery and monitoring. What's going on behind the scenes in research labs around the UK and the world, will ultimately impact what a patient will experience when in hospital.

Moon Experience – Cosmos Zone – Stand 121

Celebrating 50 years since humans landed on the moon, look up at the night sky and you'll see the most remarkable object in the solar system: the moon. Our celestial companion for 4.5 billion years, the moon has a remarkable hold on our planet, its creatures and human imagination. It has inspired great works of art, literature, religions, science and more. For most of human history, the moon has been a mysterious and enchanting place, forever out of reach. All that changed 50 years ago when Neil Armstrong took the first step on the lunar surface and brought the moon a little closer to us. How did the moon form? What is its influence over us? What secrets does it hold? Will we return? And could it pave the way to humanity's future in space?

Come and see the 'Museum of the Moon', walk and smell the moon, build your own Saturn V rocket, Spacesuit autopsy and gaze at a real-life piece of the moon through a microscope.

The Future of Farming – Earth Zone – Stand 611 & 911

Come and see 14 of the leading farming businesses to show you how fast-paced and high-tech the farming industry really is. Get ready to explore robotic milking, microchipped slugs and burping cows. Plus, climb aboard a state-of-the-art tractor, get up close with a combine harvester and more much!

Your Future in STEM – Engineering Zone – Stand 2149

Come and hear from professionals working in science about the many different pathways into a STEM career. There will be informal talks throughout the day with opportunities to ask questions afterwards. Whether you want to become a technician, apprentice, study at university or are simply stuck and looking for inspiration, come and get your questions answered.

Middlesex University – Technology Zone – Stand 1729

Discover the power of your mind and surprise yourself. Can you take charge of whizzing racing cars or solve the most intense puzzles without moving a finger? Why not immerse yourself in the most realistic 3D roller-coaster ride where you can feel the earth move? How about meeting our robot family: Let Bertie give you a hug and take a selfie with you, have a conversation with Salt & Pepper, or have a little dance perhaps? We will be showing you how STEM can be integrated in ways you have not imagined before. Come and help build a giant mathematical sculpture, create your own amino acid or experience a world from the next decade. It will “blow” your mind away.

Team Tempest – Technology Zone – Stand 1811

Team Tempest comprises MoD personnel working together with industry partners, including ourselves, Leonardo, MBDA and Rolls-Royce. The Team are developing technologies spanning the breadth of combat air systems. Each will develop UK industry's skills, technologies and capabilities for the future.

Engineers will use technologies such as augmented reality, 3D printing and AI. The project will need specialist technical skills as well as people who can collaborate effectively with international organisations.

Immersive Dome Experiences – Cosmos Zone – Stand 141

Pop in to the pop-up planetarium and go on a breath-taking journey around the cosmos. There are 3D virtual reality shows running throughout the day.

Mary Rose Trust – Engineering Zone – Stand 2611

The Mary Rose Trust will be highlighting the science and technology critical to understanding and conserving Henry VIII's warship and associated Tudor artefacts. Visitors will explore material properties using state of the art equipment, discover how this informs conservation, and have the opportunity to handle precious Tudor artefacts.

Take learning out of the classroom and let your students hear from some world-renowned scientists. Here are some of the content sessions taking place at New Scientist Live that we have curated specifically for schools.

All	Key stage 2 – 3	Key stage 3 - 4	
Time	Location	Talk	Key stage
10:30am – 10:45am	East Car Park	Rocket Man Flight Demo – <i>Sam Rogers</i>	All
10:45am – 11:25am	Cosmos Stage	How the solar system changed my life - <i>Sheila Kanani</i>	Upper key stage 2 & 3
10:45am – 11:25am	Humans Stage	The upgradeable human – <i>Bob Flint</i>	Key stage 3 & 4
11:00am – 11:40am	Space Shed	Build a universe: brick by brick – <i>Ben Still</i>	Key stage 3 & 4
11:45am – 12:25pm	Engineering Stage	Measuring temperature with sound - <i>Michael de Podesta</i>	Upper key stage 2 & 3
11:45am – 12:25pm	Cosmos Stage	How to time travel in Einstein’s universe - <i>Emma Osborne</i>	Key stage 3 & 4
12:00pm – 12:40pm	Space Shed	Managing exam stress and anxiety - <i>Primrose Kitten</i>	Key stage 3 & 4
12:15pm – 13:00pm	Main Stage	Jet suits and rocket engines – <i>Sam Rogers</i>	All
13:00pm – 13:40pm	Space Shed	Cookie! And the most annoying boy in the world – <i>Konnie Huq</i>	All
13:45pm – 14:25pm	Engineering	You are a mathematician – <i>Bobby Seagull</i>	Key stage 3 & 4
13:45pm – 14:25pm	Earth Stage	The secret life of parasites – <i>Charlotte Evans</i>	Key stage 2 & 3
14:00pm – 14:40pm	Space Shed	The smelly world of insects – <i>Adam Hart</i>	All
15:00pm – 15:40pm	Space Shed	How to save the planet with Space Shed	All

There are talks, activities, workshops and performances that are suited to Key Stage 5 students over the rest of the weekend. For further information on the full talks programme and speakers, visit www.newscientistlive.com