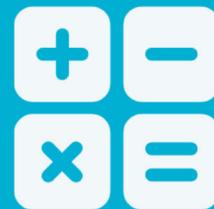


Midlothian  
Science Festival



MIDLOTHIAN  
SCIENCE FESTIVAL  
**SCHOOLS**  
PROGRAMME 2019

Schools Programme  
7th - 11th October

SCHOOL STEM EXPERIENCES FOR MIDLOTHIAN LEARNERS

#MSFSCHOOLS2019



THE UNIVERSITY of EDINBURGH  
Easter Bush  
Science Outreach Centre

**ORGANISER**  
OF THE MSF SCHOOLS  
PROGRAMME 2019

# Welcome to the Midlothian Science Festival Schools Programme 2019

Outstanding and innovative research is happening right here on the doorstep of your school.

The Midlothian Science Festival Schools Programme is run as part of the Midlothian Science Festival, a small Scottish charity. The schools programme is coordinated by the Easter Bush Science Outreach Centre and is made possible by the scientists and STEM organisations that offer exciting, interesting and inspiring workshops for our Midlothian learners.

The aim of the schools programme is to:

- Inspire and engage Midlothian learners in science and discovery.
- To cultivate curiosity and communicate the power of knowledge and creativity to change our world view.
- Encourage young people to understand real-life application of science and issues of controversy so that they might become well informed citizens involved in decision making.
- Raise aspirations of local young people, give opportunities to meet and speak with scientists and help cultivate the next generation of scientific explorers.

Most of the workshops are free, and all happen in your school, in your classrooms.

This year we are proud to bring you some new workshops covering a range of subject areas including maths, computing, science and technology; linking them with different parts of the curriculum and revealing the world of work in different areas of science and technology.

## How to book

Please note that there are limited number of sessions, so book early to avoid disappointment.

To book please email the **contact** for the workshop.

If you have any general questions about the #MSFSchools2019 programme you can email [ebsoc@ed.ac.uk](mailto:ebsoc@ed.ac.uk)

**Midlothian**  
**Science Festival**



**Bookings  
must be  
made by  
20th  
September**

#MSFSchools2019

# Primary Workshops

#MSFschools2019

The workshops offered in this year's Midlothian Science Festival Schools Programme cover a broad range of different STEAM subjects, linking with different parts of the curriculum and revealing the world of work in different areas of natural science, social science and technology.

Primary 1

Primary 2

Primary 3

Primary 4

Primary 5

Primary 6

Primary 7

Science

**Bookings  
must be  
made by 20th  
September**

**Brain Matters:** In this fun workshop pupils explore their senses.

**Bugs and Bones:** A highly interactive, interdisciplinary workshop combining science, art and literacy.

**Do you want to work with animals?** During this hands-on workshop, pupils will meet vet students from Edinburgh University's vet school and work with them to understand what pets need to be happy and healthy.

**EpiFarm:** In this unique researcher-led workshop, pupils become experts in epidemiology to solve a real-world problem.

**SwallowPill, GetBetter:** In this interactive workshop pupils design a clinical trial for three drugs, through problem-solving and working with clinical trial specialists.

**Supercytes:** A game-based workshop that introduces pupils to how their bodies fight infection.

**Operation Colodenum:** An interactive workshop that explores vaccinations and use of antibiotics.

**GetPROTECTED:** Work with Edinburgh Neuroscience to learn about the brain!

**GetCONNECTED:** Learn about the nervous system!

**BodyWorks On Tour for Schools:** Get hands-on with science behind human health and wellbeing- your pupils will never look at their bodies in quite the same way again! *\*Please note there is a charge for this workshop*

**Be a Puffin Scientist:** Pupils will become seabird ecologists!

**Have Fun with Maths:** An interactive workshop that reveals how maths can be used to solve real-world problems.

**Game On!** A hands-on, interactive workshop introducing coding and its role in the world.

**Shiny Science:** Discover the science of mirrors and lenses through a series of inspiring hands-on experiments

**Language Evolves!** A series of fun activities and games are used to explore how languages evolve and how we use them.

Maths

Technology

literacy

# Secondary Workshops

#MSFschools2019

The workshops offered in this year's Midlothian Science Festival Schools Programme cover a broad range of different STEM subjects, linking with different parts of the curriculum and revealing the world of work in different areas of natural science, social science and technology.

Science

S1

S2

S3

S4

S5

S6

**BodyWorks On Tour for Schools:** Get hands-on with science behind human health and wellbeing- your pupils will never look at their bodies in quite the same way again! *\*Please note there is a charge for this workshop*

**Genetic Engineering:** In this hands-on workshop, pupils explore DNA & genetic engineering.

**Supercytes:** A game-based workshop that introduces pupils to the study of immunology and the variety of cells responsible for fighting infection in their bodies.

**Operation Colodenum:** An interactive workshop that explores the importance of vaccinations and use of antibiotics.

**HostBusters:** A hands-on, interactive workshop that explores disease causing bacteria, what makes some of them so dangerous and how are scientists at The Roslin Institute trying to stop their spread.

**Outbreak Lab:** In this hands-on workshop, pupils use a range of scientific skills, including micropipetting, to diagnose chickens with bird flu.

**GetREMEMBERING:** This workshop covers the mechanisms by which the brain retrieves information. Along with brain scientists pupils will dissect a brain.

Maths

**Have Fun with Maths:** An interactive workshop that reveals how maths can be used to solve real-world problems.

**EpiFarm:** In this unique researcher-led workshop, pupils become experts in epidemiology to solve a real-world problem.

Technology

**Bioinformatics: The Power of Computers in Biology:** A hands-on introduction to how bioinformatics is used in Biology using Raspberry Pi.



## Be a Puffin Scientist

P2 & P3

Centre for Open Learning | University of Edinburgh & Centre for Ecology & Hydrology

"Children love weighing and measuring the toy puffins and discovering more about the exciting lives of seabirds"



Pupils will learn what it is like to be a seabird ecologist in the field, using toy puffins to measure and weigh. They will record their "puffin data" and see the data appear on a laptop in a graph. They will learn why it is important to measure puffin chicks each year and what the data can tell us about the marine environment. The session will end with a story about a puffin from the Isle of May (P2) or a video showing seabird research by CEH on the Isle of May (P3).

**Key subject links:** Biology, Numeracy, Literacy

**Key topics:** Nature, Wildlife, Seabirds, Climate change, Marine environment

**Maximum group size:** 34 pupils

**Duration:** 60 minutes

Note: This workshop would benefit by the addition of 5-10 digital weighing scales from participating schools.



THE UNIVERSITY of EDINBURGH  
Centre for Open Learning



Centre for Ecology & Hydrology  
NATURAL ENVIRONMENT RESEARCH COUNCIL

**Dates available:** Monday 7th October (2 morning sessions)

**Contact:** Dr Sue Lewis [sue.lewis@ed.ac.uk](mailto:sue.lewis@ed.ac.uk)

## Bioinformatics: The Power of Computers in Biology

S5 & S6

School of Biological Sciences | University of Edinburgh



We deliver a curriculum-linked workshop, introducing Biology and Human Biology pupils to bioinformatics using free resources and a practical case study. This workshop also reinforces *mutations*, teachers must cover this section of the curriculum in-class prior to our workshop. Pupils use a mix of online sequence databases and search software - freely available to the public online - and Raspberry Pi computers, which we bring in to the school.

\*Please note: this workshop requires computer access for pupils

**Key subject links:** Biology, Computing Science

**Key topics:** Bioinformatics, Mutations - substitutions, insertions,

deletions and frameshifts.

**Maximum group size:** 20 pupils

**Duration:** 2 class periods (a double or two single)



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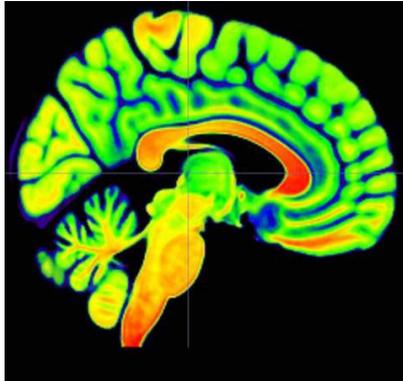
**Dates available:** Tuesday 8th October, Thursday 10th October, Friday 11th October

**Contact:** Dr Stevie Bain [stevie.bain@ed.ac.uk](mailto:stevie.bain@ed.ac.uk)

## Brain Matters: Explore your Senses

P4

Lothian Birth Cohorts | Psychology | University of Edinburgh



Explore your senses and discover just how amazing your brain is! The brain gets information from our senses, which it then has to process, but as we get older connections get broken and certain kinds of sensing become more difficult.

Explore how the brain gets information from all five senses in a series of fun activities and discover how scientists find out different things about the brain!

**Key subject links:** Biology

**Key topics:** Senses, Human body, Nervous system, World of work in brain science

**Maximum group size:** 34 pupils

**Duration:** 60 minutes

*\*please note that this workshop includes tasting different foods. It is the responsibility of the teacher to check the foods being used with Barbora Skarabela if you have any pupils with food allergies.*



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**Dates available:** Tuesday 8th October, Wednesday 9th October, Thursday 10<sup>th</sup> October (2 workshops per day/per school)

**Contact:** Dr Barbora Skarabela [b.skarabela@ed.ac.uk](mailto:b.skarabela@ed.ac.uk)

## BodyWorks On Tour for Schools

P1- P6, S1- S3

Glasgow Science Centre

*"Highly visual, engaging and entertaining. There was lots of pupil participation and great for staff to see how science could be brought alive."*



Our *BodyWorks On Tour* programme is all about our amazing (baffling and sometimes yucky) bodies.

Get hands-on with the science behind human health and well-being – you'll never look at your body in quite the same way again.

Teachers, these engaging experiences are designed to fit the needs of learners from primary through to secondary school pupils. They are the perfect complement to the Curriculum for Excellence Science and Health & Wellbeing outcomes.

We'll visit you and deliver a tailored full day set of activities.

*\*Please note that there is a charge for this workshop, but thanks to support the Midlothian Science Festival and the Glasgow Science Centre this is a reduced rate (usual charge £300).*

**Cost:** School Full Day = £150 + VAT

**Key subject links:** Biology, Health and Fitness

**Key topics:** Science; human body, body systems, health and well-being

**Maximum group size:** 33 pupils per session **Duration:** 5 x 45 minutes sessions delivered through the school day.

**Dates available:** 30<sup>th</sup> September – 11<sup>th</sup> October Subject to availability.

**Contact:** [on.tour@glasgowsciencecentre.org](mailto:on.tour@glasgowsciencecentre.org)

# Workshop Descriptions

## Bugs and Bones: Science, Art & Writing Workshop

P4-P7

Edinburgh Infectious Diseases | University of Edinburgh

*"Absolutely fantastic workshop thoroughly enjoyed by all - children still talking about what they learned over two weeks later"*

A highly interactive, multidisciplinary workshop:

**Science** - Exploring the Bugs and Bones of the University of Edinburgh's natural history collection, pupils investigate how animal skeletons are adapted to their function; examine different parasites under a microscope; and learn about how infections are spread from person to person.

**Art** - Using the samples from the natural history collection to inspire some pieces of creative art.

**Writing** - Taking inspiration from the concepts of adaptation and the spread of infectious disease, to explore how language evolves.

**Key subject links:** Biology, Literacy, Art

**Key topics:** Science; Expressive arts; Health and well-being

**Maximum group size:** 34 pupils (1 class)

**Duration:** 2 hours

**Dates available:** Tuesday 8th October, Wednesday 9th October, Thursday 10th October (2 sessions each day at the same school)

**Contact:** Hilary Snaith [hilary.snaith@ed.ac.uk](mailto:hilary.snaith@ed.ac.uk)



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## Do you want to work with animals?

P4-P7

Royal (Dick) School of Veterinary Studies | University of Edinburgh



A career working with animals can be incredibly rewarding, and can provide endless opportunity to improve animal welfare. In this workshop we will discuss different pathways towards a career working with animals (with emphasis on the role of the vet), the concept of animal welfare, and common animal welfare problems in pets.

This workshop will be run by undergraduate vet students and there will be time for discussion about what life as a vet is really like.

*\*Note: this is a new workshop so feedback from pupils and teachers will be requested at the end.*

**Key subject links:** Biology, Chemistry

**Key topics:** Veterinary medicine, Ethics, Animal welfare

**Maximum group size:** 34 pupils primary (1 class)

**Duration:** 50 minutes

**Dates available:** Monday 7th October, Tuesday 8th October, Wednesday 9th October, Thursday 10th October, Friday 11th October (3 sessions per day/per school)

**Contact:** Ellie Girgis [s1605911@sms.ed.ac.uk](mailto:s1605911@sms.ed.ac.uk)



THE UNIVERSITY of EDINBURGH  
The Royal (Dick) School  
of Veterinary Studies

## EpiFarm

P5-P7, S1-S4

Global Academy of Agriculture and Food Security | University of Edinburgh



EpiFarm provides a researcher-led introduction to the world of epidemiology (the study of patterns and causes of disease in the population at large) through an animated game hosted on the Scratch platform.

Pupils will play the part of an expert epidemiologist called in by a panicked farmer to analyse the spread of an epidemic among the hens on their farm, and will conduct their own experiment from formulating the hypothesis and experimental design through to discussing potential applications.

The class will be introduced to these concepts through examples of real-life science performed at The Roslin Institute, University of Edinburgh and will be supported by an active research scientist.

*\*Pupils will require access to a computer, but can work in pairs or groups of three.*

**Key subject links:** Biology, Mathematics, Computing science

**Key topics:** Disease spreading, Computer modelling

**Maximum group size:** 34 pupils (1 class) **Duration:** 2 hours



THE UNIVERSITY of EDINBURGH  
Global Academy of  
Agriculture and Food Security

**Dates available:** Monday 7th October, Tuesday 8th October, Wednesday 9th October, Thursday 10th October

**Contact:** Dr Debby Powell [debby.powell@ed.ac.uk](mailto:debby.powell@ed.ac.uk)

## Game On!

P6 & P7

Centre for Medical Informatics | University of Edinburgh

*"A great introduction to coding and its role in the world!"*



This hands-on, interactive workshop aims to introduce youngsters to computer programming and equip them with the skills needed to build their own computer games. A mix of methods will be used, including: short presentation, group discussion, tool demonstration and hands-on pair programming. Coding and game building is very popular with children, and this is a great opportunity to show how creative and fun computer science is. A unique element of this workshop is that it builds on the [Code Yourself! MOOC](#), which the participants can follow after the workshop to extend and further improve their coding experience.

*\*Please note that this workshop requires that pupils have access to computers.*

**Key subject links:** Computing science

**Key topics:** Coding, Scratch, Computational thinking, Algorithms, Computing science

**Year group:** P6 & P7

**Maximum group size:** 18 pupils **Duration:** 60 minutes



THE UNIVERSITY of EDINBURGH  
Edinburgh Medical School

**Dates available:** Tuesday 8th October, Thursday 10th October

**Contact:** Dr Areti Manatakis [A.Manatakis@ed.ac.uk](mailto:A.Manatakis@ed.ac.uk)

## GetCONNECTED

P7

Edinburgh Neuroscience | University of Edinburgh



This workshop focuses on nerve connections in the brain. It takes you from chemical communication between brain nerve cells to the pruning back of connections that takes place as you mature from a child into an adult. This workshop is a must for every child that is about to go through adolescence - 'just why is he behaving like that now he is 13?' This workshop aims to tell you!

**Key subject links:** Biology

**Key topics:** Brain science, Nervous system

**Age/year group:** P7

**Maximum group size:** 30 pupils (1 class) **Duration:** 60 minutes

*\*Requires a school hall. No AV needed so can use gym hall.*



THE UNIVERSITY  
of EDINBURGH

Edinburgh  
Neuroscience

**Dates available:** Monday 7<sup>th</sup> October

**Contact:** Dr Jane Haley [jane.haley@ed.ac.uk](mailto:jane.haley@ed.ac.uk)

## Genetic Engineering

S3

Wellcome Trust Centre for Cell Biology | University of Edinburgh

*"Modelling genetic engineering with magnets was very good. Ranking genetic engineering approaches was provocative and led to good discussions. Involvement of the researchers was valuable."*



This workshop describes how we use genetic engineering at our Centre and uses case-studies of local scientists talking about what they do. The workshop covers DNA base pairing, the structure of DNA and plasmid DNA using magnets: students build their own model of a plasmid and DNA insert.

**Key subject links:** Biology

**Key topics:** Genetic engineering, DNA base pairing, Plasmids, Genetic engineering applications in current research

**Maximum group size:** 30 pupils **Duration:** 50-60 minutes



**Dates available:** Tuesday 8th October, Wednesday 9th October, Thursday 10th October (3 workshops per day/ per school)

**Contact:** Maria Fanourgiaki [mfanourg@ed.ac.uk](mailto:mfanourg@ed.ac.uk)

## GetPROTECTED

P6 & P7

Edinburgh Neuroscience | University of Edinburgh



This workshop focuses on the structure and function of the brain and why it is important that you protect your brain from damage. It looks at head protection in the context of cycling and sport, and is particularly suitable for delivering when the school is doing Bikeability training (though can be delivered to all pupils, not just those on the Bikeability course).

**Key subject links:** Biology, Physical Education

**Key topics:** Nervous system, Keeping healthy

**Maximum group size:** 30 pupils (1 class) **Duration:** 60 minutes



THE UNIVERSITY  
of EDINBURGH

Edinburgh  
Neuroscience

**Dates available:** Monday 7th October, Tuesday 8th October, Wednesday 9th October, Thursday 10th October, Friday 11th October

**Contact:** Dr Jane Haley [jane.haley@ed.ac.uk](mailto:jane.haley@ed.ac.uk)

# Workshop Descriptions

## GetREMEMBERING

S4-S6

Edinburgh Neuroscience | University of Edinburgh



This workshop covers the mechanisms by which the brain stores and retrieves information, we usually manage to include a brain dissection too!

**Key subject links:** biology, computing science

**Key topics:** nervous system, keeping healthy

**Maximum group size:** 20 pupils     **Duration:** 90 minutes – 2 hours

*\*Delivered in science lab/classroom*



THE UNIVERSITY  
of EDINBURGH

Edinburgh  
Neuroscience

**Dates available:** Monday 7th October, Tuesday 8th October, Wednesday 9th October, Thursday 10th October, Friday 11<sup>th</sup> October

**Contact:** Dr Jane Haley [jane.haley@ed.ac.uk](mailto:jane.haley@ed.ac.uk)

## Have Fun with Maths

P5-P7, S1-S3

School of Mathematics | University of Edinburgh



Do you think Maths is nothing more than numbers? You may change your mind after this workshop. You will see some "magic" card tricks. You will play strategy games and find out how Maths underpins them. You will find out how Maths can be used to improve transportation networks.

**Key subject links:** Mathematics

**Key topics:** Problem solving, Real world application of mathematics

**Maximum group size:** 34 pupils (Primary) 24 pupils (Secondary)

**Duration:** 50 minutes



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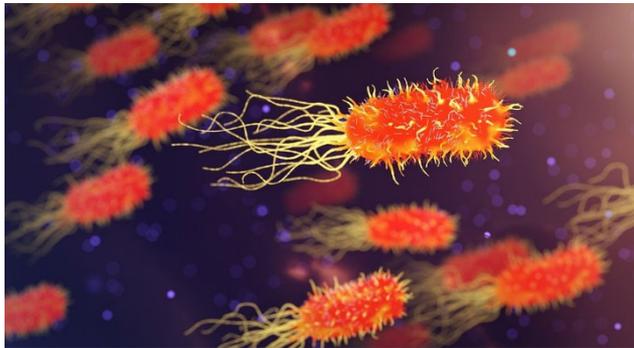
**Dates available:** Tuesday 8th October, Wednesday 9th October (up to 4 workshops per day/per school)

**Contact:** Dr Francesca Iezzi [francesca.iezzi@ed.ac.uk](mailto:francesca.iezzi@ed.ac.uk)

## HostBusters

S1-S3

The Roslin Institute | The University of Edinburgh



In this workshop, participants will learn how bacteria spread and infect humans and animals. Using UV torches and an interactive game, we will take your pupils on a journey through our science. By the end of the workshop they will understand why some bacteria are better at infecting than others.

The session will be run by scientists from The Roslin Institute and there will be time for discussion about what life in the lab is really like

This is a new workshop so feedback from pupils and teachers will be requested at the end.

**Key subject links:** Biology

**Key topics:** Bacteria, Disease, Prevention of disease, World of work in science

**Maximum group size:** 24 pupils

**Duration:** 2 periods (1 double)

*\*please note that this workshop includes the use of GloGerm, if anyone has skin conditions such as eczema on their hands we advise that they do not take part in this short part of the workshop.*



**Dates available:** Tuesday 8th October, Friday 11th October

**Contact:** Dr Joana Alves [joana.alves@roslin.ed.ac.uk](mailto:joana.alves@roslin.ed.ac.uk)

## Language Evolves!

P4-P7

Centre for Language Evolution | University of Edinburgh

*"It was FAB! " The games were relevant and very fun. ""*



**Description:** Languages are constantly evolving; the English spoken by Shakespeare 500 years ago sounds very different from how we speak today, and the first languages of our ancestors 1 million years ago were probably very different indeed! We will introduce the scientific study of language evolution through a series of fun activities and games, exploring how languages evolve as we learn and use them in our everyday lives.

**Key subject links:** Modern language

**Key topics:** Modern languages, Exploring comparisons and connections

between languages.



THE UNIVERSITY OF EDINBURGH  
School of Philosophy, Psychology  
and Language Sciences

**Maximum group size:** 34 pupils

**Duration:** 60 minutes

**Dates available:** Monday 7th October, Wednesday 9th October, Thursday 10th October, Friday 11th October

**Contact:** Prof Kenny Smith [kenny.smith@ed.ac.uk](mailto:kenny.smith@ed.ac.uk)

## Operation Colodenum: Your Amazing Immune System

P6-P7, S1-S3

Centre for Inflammation Research | University of Edinburgh

*"Excellent way of introducing the topic with the game. Really clear presentation and great videos. Really enjoyed learning about the herd effect. Really interesting in light of flu immunisations."*



Have fun with Biology and encourage an early interest in science. This game-based workshop encourages younger learners to think about how our bodies protect us from infection and the importance of vaccinations. Teams use an interactive board game to discover how to protect a complex biome of cartoon creatures from harmful threats, without severely disrupting it, followed by a presentation and discussions about vaccines, antibiotics and good bacteria with scientists. To find out more visit <https://bit.ly/2lCmGTl>

**Key subject links:** Biology

**Key topics:** Infection, Immune system, Microbiome (communities of bacteria), Vaccines, Antibiotics

**Year group:** P6, P7, S1; S2; S3

**Maximum group size:** 34 pupils primary and 24 pupils secondary

**Duration:** 60 – 90 minutes



THE UNIVERSITY of EDINBURGH  
Centre for Inflammation Research

**Dates available:** Monday 7th October, Tuesday 8th October, Thursday 10th October

**Contact:** Dr Donald Davidson [Donald.Davidson@ed.ac.uk](mailto:Donald.Davidson@ed.ac.uk)

## Outbreak Lab

S1-S2

The Roslin Institute | University of Edinburgh

*"I was really impressed with the equipment the students got to use and the real-world context made it feel real and relevant "*



In this hands-on, experimental workshop, students will use real laboratory techniques to track the outbreak of an infectious disease in chickens.

During the workshop, pupils will use micropipettes and other lab equipment to help them perform a mock diagnostic test. The workshop will also cover some of the science behind disease diagnosis.

Your pupils will have the opportunity to meet and interact with professional scientists from The Roslin Institute, who are working together to understand how infectious diseases affect chickens and other farmed animals.

**Key subject links:** Biology

**Key topics:** Scientific research, Laboratory skills, Revealing the world of work in science

**Age/year group:** S1, S2

**Maximum group size:** 20 pupils **Duration:** 50 minutes



**Dates available:** : Monday 7th October, Tuesday 8th October, Thursday 10th October, Friday 11<sup>th</sup> October (3 sessions per day at the same school)

**Contact:** Dr Nicola Stock

[PE@roslin.ed.ac.uk](mailto:PE@roslin.ed.ac.uk)

## Shiny Science

P5-P7

Light Lab Project supported by Ponton House Trust



Discover the science of mirrors and lenses through a series of inspiring hands-on experiments. Use prisms and torches to split white light into the full colour spectrum then explore the angle of reflection with mirrors before using these angles to construct a working periscope. Draw with ultra-violet torches on light sensitive paper, then construct a box camera that uses the light sensitive paper and convex lenses to make actual photographs. The workshop allows for the excitement of personal discovery through a series of guided experiments. The workshop lasts one hour and can accommodate full class sizes P5-P7. Three 1 hour workshops can be completed in each school day.

**Key subject links:** Art, Science

**Key topics:** Light, Technology

**Maximum group size:** 34 pupils (1 class) **Duration:** 1 hour



**Dates available:** Thursday 3rd October, Monday 7th October, Tuesday 8th October, Wednesday 9th October, Thursday 10th October, Friday 11<sup>th</sup> October (3 sessions per day at the same school)

**Contact:** Kenny Bean [kennybean@outlook.com](mailto:kennybean@outlook.com)

## Supercytes- Your body's amazing defenders against infection

P6-P7, S1-S4

Centre for Inflammation Research | University of Edinburgh

*"Quality of the cards and the design is excellent. Great way to reinforce a difficult area of the curriculum. LOVE the animation slides."*



Have fun with Biology and encourage an early interest in science. Supercytes game-based workshop introduces younger learners to white blood cells and how our bodies fight infection, or supports older students learning basic immunology. Presentation, worksheets, animations, quiz and a lively interactive strategic card game, run by medical research scientists from the University of Edinburgh. Visit [www.ed.ac.uk/supercytes](http://www.ed.ac.uk/supercytes) to find out more!

Participation will also entitle the school to a full free set of #Supercytes resources.

**Key subject links:** Biology

**Key topics:** Infection, Vaccines, Immune system, Medical research

**Year group:** P6, P7, S1; S2; S3; S4

**Maximum group size:** 34 pupils primary and 24 pupils secondary

**Duration:** 60 – 90 minutes



THE UNIVERSITY of EDINBURGH  
Centre for Inflammation Research

**Dates available:** Monday 7th October, Tuesday 8th October, Thursday 10th October

**Contact:** Dr Donald Davidson [Donald.Davidson@ed.ac.uk](mailto:Donald.Davidson@ed.ac.uk)

## SwallowPill, GetBetter - Design a Clinical Trial

P6-P7

Edinburgh Clinical Research Facility | NHS | University of Edinburgh



An interactive, digital clinical trials game that allows pupils to design their own clinical trial from a variety of fictitious conditions. *SwallowPill, GetBetter* needs your help in getting its three latest drugs through clinical trials and on to market. You will navigate through the different stages of the clinical trial process taking into account financial implications, preclinical data, ethical and regulatory compliance as well as any side effects.

Once pupils have completed their trial they will receive feedback on the decisions they have made and why their trial resulted in success or failure. There will be time for pupils to consider other options and try again.

**Key subject links:** Biology, Chemistry

**Key topics:** Medicine, Ethics, Clinical trials, World of work in clinical trials

**Year group:** P6, P7

**Maximum group size:** 34 pupils primary & 24 pupils secondary

**Duration:** 45-50 minutes

*\*please note that this workshop requires that pupils have access to computers or tablets*



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of EDINBURGH

**Dates available:** Monday 7th October, Tuesday 8th October, Wednesday 9th October, Thursday 10th October  
(3 workshops per day/per school)

**Contact:** Dr Danielle Marlow [danielle.marlow@ed.ac.uk](mailto:danielle.marlow@ed.ac.uk)