A child in a grey hoodie is holding a blue tablet. The tablet screen shows a video of two young girls in a classroom. One girl is wearing a red hoodie and the other is wearing a maroon hoodie. They are standing in front of a world map. The background of the overall image is a blurred classroom scene with other students and a world map on the wall.

Primary School Activity Brochure 2017/18

Department of Widening Participation and Outreach
University of Surrey

Inspiring the next generation
Raising aspirations and attainment through partnership



INTRODUCTION TO WIDENING PARTICIPATION AND OUTREACH

The Widening Participation and Outreach team at the University of Surrey are committed to raising the aspiration and attainment of students who have the potential to progress into Higher Education, but who are from backgrounds currently underrepresented in Higher Education. The work we do aims to ensure that those with the potential to succeed at university have access to a range of support and opportunities that will help them to flourish on their journey into and through Higher Education, no matter what their background.

Our aims are achieved by providing these students with a high quality, sustained and coherent programme of activities, designed to help increase their aspiration and attainment levels and provide them with clear information, advice and guidance about Higher Education. These exciting and informative activities are offered across several year groups, from Year 5 through to Year 13, and include campus visits, subject taster days, information, advice and guidance workshops and residential summer schools.

Information about the activities on offer for Primary students are detailed in this brochure.

**DISCLAIMER: THIS INFORMATION IS ACCURATE TO THE DATE AND TIME OF PUBLICATION.
ALL ACTIVITIES ARE SUBJECT TO CHANGE.**

Contents

Introduction to Widening Participation and Outreach	2
Year 5 Events	3–6
Year 6 Events	7–12
Booking Information and Contact Details	14



YEAR 5 EVENTS

BALLOON RACECARS: AN INTRODUCTION TO ENGINEERING

Have you ever wondered what is meant by the term engineering? What is an engineer? This interactive and fun workshop provides such answers, offering an introduction into engineering and how it has an impact on the world around us. During the course of the session, pupils will apply their creative, imaginative and engineering skills into making their own racecar powered by air before putting it to the test through the runway challenge.

Learning outcomes:

- The meaning of the term engineering
- The roles and responsibilities of an engineer
- How to construct an aerodynamic vehicle

Advised total number of students is 30 with the workshop running for approximately 60 – 75 minutes and can be delivered on campus or at your school. Transport costs can be covered.

HEALTHY HEROES: FINDING THE BALANCE

This brand new workshop aims to get students thinking about health and nutrition and the choices they make. As part of the day students will be tasked with creating their perfect plate – but will it make them a healthy hero? Students will focus on The Eat Well Guide and the nutrients needed to keep us healthy.

Learning outcomes:

- Students to develop a better understanding of good nutrition and the eat well guide
- Students to explore the nutritional benefits of different foods and the different nutritional requirements of people
- Students to build skills in group work, communication and independent learning

Advised total number of students is 35 with the workshop running 10:00 – 14:30 and can be delivered on campus or at your school. Transport costs can be covered.

YEAR 5 EVENTS

THE BIG BAD...PIGS?

We all know the wolf huffed and puffed but was there a reason or were the pigs to blame? Who is guilty...You decide! Taking a look at the story of The Three Little Pigs and The Big Bad Wolf, students will need to use facts and knowledge gained to support each side of the lawsuit! Students will visit the Law Library and present closing statements for the prosecution and defence!

Learning outcomes:

- Understanding the roles and responsibilities of lawyers, judges and the jury
- Enhanced speaking and listening skills
- Increased confidence problem solving

Advised total number of students is 30 with the workshop running approximately 2.5 hours. This event runs on campus only. Transport costs can be covered.



YEAR 5 EVENTS

GREEN NINJA TRAINING ACADEMY

This workshop provides an introduction to climate change, global warming and the growing need for sustainability resources within our homes and industry. Through the workshop, pupils will enrol as 'Green Ninjas' playing their part in maintaining a greener and healthier planet. Pupils will complete various tasks designed to raise awareness of how far their food has travelled and how to recycle and upcycle various materials. This fun and innovative workshop will encourage pupils to further understand and appreciate the importance of sustainability as part of their everyday lives.

Learning outcomes:

- To be able to understand what climate change and global warming are.
- To be able to identify what I can do to tackle climate change and global warming.
- To be able to understand how I can support a collective movement to tackle climate change and global warming.

Advised total number of students is 30 with the workshop running for 90 minutes. Advisable for this event to run at school, but can be offered on campus. Transport costs can be covered.



YEAR 5 EVENTS

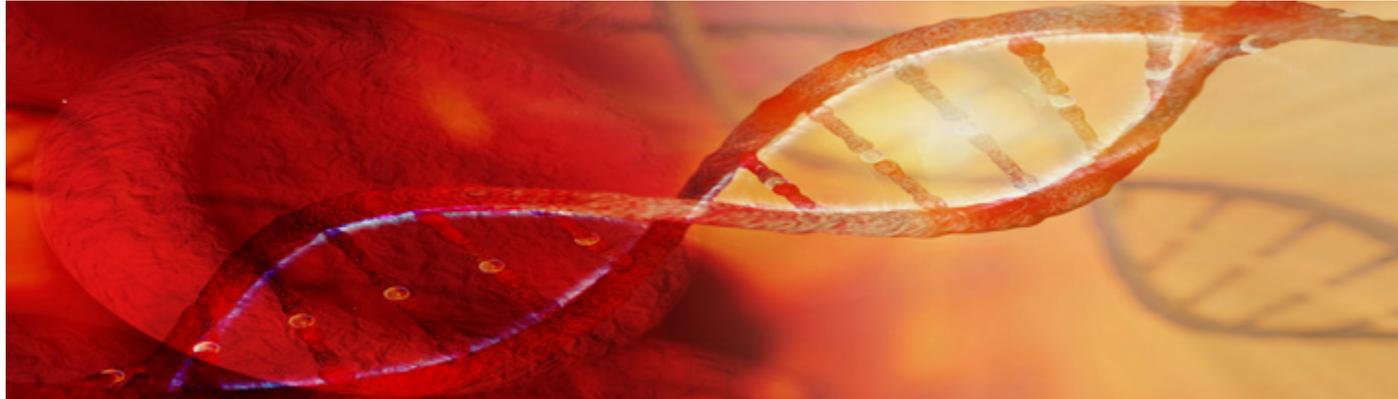
BLOOD, BONES AND BODIES

Introduce your students to the fascinating world of Human Biology with this interactive activity focused around the human body. Students will have chance to explore the bones in our bodies and see for themselves what makes up their blood.

Learning outcomes:

- Students to engage with human biology and medicine
- Students to develop practical skills
- Increased understanding of skeletons and blood biology

Advised total number of students is 30 with the workshop running approximately 2.5 hours and can be delivered on campus or at your school. Transport costs can be covered.



YEAR 6 EVENTS

'MAD ABOUT...' PRIMARY FAIR!

Students will have the opportunity to learn about university, talk to current University students and participate in interactive, fun and diverse subject activities.

Learning outcomes:

- Students to develop a better understanding of what University is, the pathways to university and the social and educational benefits of going to university
- Students will develop subject specific knowledge, the educational pathways to study these particular subjects and the careers these specific subjects can lead to

A maximum of 60 students per school with the option to attend an AM or PM time slot. Summer dates TBC. This event runs on campus only. Transport costs can be covered.



YEAR 6 EVENTS

SCIENCE OF THE SENSES

This hands-on and practical event can be delivered in school and aims to take a look at the science behind the senses. Students will explore their various senses through miniature experiments as they move between the sense tables. Are our eyes deceiving us? Can you make a chemical reaction in your mouth? And are you able to recreate the sound of laser guns? Lead by our current students this event gets students up close to the science of their senses.

Learning outcomes:

- Students will be introduced to the exciting area of biosciences
- Students to develop knowledge in relation to their senses and the science behind these
- To inspire students to enjoy studying science

Advised total number of students is 30 with the workshop running approximately 2.5 hours and can be delivered on campus or at your school. Transport costs can be covered.



YEAR 6 EVENTS

THE SPLENDIFEROUS WORLD OF ROALD DAHL

In celebration of the glorumptious author, Roald Dahl, we have two jumpsquiffing literacy workshops that allow students to discover some of his best loved stories: The BFG & Charlie and the Chocolate Factory.

Both workshops will introduce students to the descriptive language used by Roald Dahl to create his well-loved characters. The workshops are aimed at tapping into students' imagination and creative thinking through group discussions and interactive tasks! The students will finish the workshop creating a character of their own by using descriptive language and words from Gobblefunk (Roald Dahl's own language!).

Learning outcomes:

- Students to explore the richness and diversity of language
- Students to increase confidence for using descriptive language

Advised total number of students is 30 with the workshop running approximately 2.5 hours and can be delivered on campus or at your school. Transport costs can be covered.

ROALD DAHL DRAMA WORKSHOP

With the helping hand of Guildford School of Acting (GSA), students will delve into their imaginations, be creative with the plots and transform into some of the world famous characters!

Learning outcomes:

- Students to enhance speaking and listening skills
- Students to increase confidence and team building skills

Advised total number of students is 30 with the workshop running approximately 2.5 hours. This event runs on campus only. Transport costs can be covered.

"We are the music makers, and we are the dreamers of dreams."

YEAR 6 EVENTS

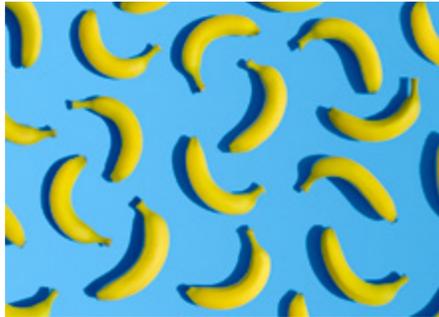
DOES A BANANA CONDUCT ELECTRICITY?

This workshop experiments with circuits, providing an introduction towards Electronic Engineering and Computer Programming. Pupils will build their own circuits before exploring conductive materials, some more conventional than others. The workshop will then conclude with a focus on programming a computer game, offering pupils a resource to take home and to experiment in their own time.

Learning outcomes:

- To be able to identify different types of circuits and their components.
- To be able to investigate which materials are best at conducting electricity.
- To be able to identify how electronic devices are powered and programmed through circuits.

Advised total number of students is 30 with the workshop running approximately 90 minutes and can be delivered on campus or at your school. Transport costs can be covered.



YEAR 6 EVENTS

HOW TO WIN AT ROCK, PAPER, SCISSORS

This workshop explores the mathematical patterns, puzzles and theories behind the game of Rock, Paper, Scissors to explore the most effective way to win. Pupils will learn about how probability can vary within a game whilst also being introduced to Game Theory.

Learning outcomes:

- To be able to understand the concept of probability.
- To be able to identify patterns and mathematical techniques found within a game of Rock, Paper, Scissors.
- To be able to understand the concept of game theory and its application within Rock, Paper, Scissors.

Advised total number of students is 30 with the workshop running approximately 45 minutes and can be delivered on campus or at your school. Transport costs can be covered.



YEAR 6 EVENTS

ARCHAEOLOGY IS RUBBISH!

Archaeology is Rubbish! Well not entirely, archaeology is a fascinating study of human history through the examination of sites and the analysis of physical remains. But it is made up mainly of studying rubbish! Throughout the session your students will explore what archaeology is and will be tasked with finding the individuals behind the rubbish. Can they deduce who created this rubbish and tell us anything about their life? After developing these skills students will have the opportunity to experience Surrey's past by getting hands on with real artefacts.

Learning outcomes:

- Students to develop skills thinking analytically and creating arguments
- Students to gain an understanding of what archaeology is

Advised total number of students is 35 with the workshop running approximately 90 minutes and can be delivered on campus or at your school. Transport costs can be covered.



BOOKING INFORMATION & CONTACT DETAILS

BOOKING WORKSHOPS:

Choose a one-off workshop to be delivered on campus or at your school.

OR

Select a pick 'n mix visit which includes any 2 workshops across a day (10:00 -14:30) and can be delivered on campus or at your school.

If you choose the on-campus pick 'n mix option this will include a short introduction to University, a campus tour and lunch will be provided.



PLEASE NOTE:

All Science based workshops offered in this brochure can also be offered during British Science Week! (Balloon Racecars: An Introduction to Engineering, Healthy Heroes: finding the balance, Science of the Senses Green Ninja Training Academy and Does a Banana Conduct Electricity?).

CONTACT DETAILS:

Please email wp@surrey.ac.uk for further information and to arrange your booking.

For more information, please visit:
www.surrey.ac.uk/wpo/
www.surrey.ac.uk/schoolsandcolleges/





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Disclaimer

The information in this brochure is intended as an indicative guide to the educational and other services provided by the University. The University endeavours to ensure that the information provided is accurate and up-to-date at the time of going to press (September 2016).

However, it may be necessary for the University to make changes to some of the information presented in it. To make an informed decision about whether you wish to study at the University, we advise you to consult the University's website for up-to-date information.