

# Developing maths skills in biology

Monday 2 July 2018

St James the Less, Pimlico, London

Limited early bird places available for £145 + VAT (T&Cs apply)

## Increase your confidence preparing students for the increased mathematical demands of the new GCSE and A Level curriculum

- Gain ideas for engaging and challenging activities that allow students to apply maths skills in a wide variety of contexts throughout the curriculum
- Discuss methods to pitch teaching appropriately according to students' mathematical abilities to help students access complex analysis
- Hear from leading experts about real-life applications of maths in biological research
- Develop your knowledge of relationships between variables, analysis of patterns in data, displaying data and explore methods to teach these skills effectively

## Sessions include:

### Lectures:

*Applications of maths in behaviour research*

**Dr Susanne Shultz**

### Teacher-led workshops:

*Developing and embedding maths skills throughout the GCSE curriculum*

*The challenges of A level maths questions in biology*

### This day is for you if:

- You would like to help students apply maths skills in biological contexts and understand why these skills are vital in biology today
- You would like to gain ideas in a supportive environment and practise key maths
- You want to share best practice and explore how schools ensure that maths skills are delivered
- You want to gain resources and activities to use in class for this topic and beyond

### Prices (subject to VAT at 20%):

£145 + VAT (Limited early bird places available, must be booked by Friday 18 May 2018, T&Cs apply)

£195 + VAT (Schools Programme members)

£295 + VAT (non-members)

£145 + VAT (additional places from the same department)



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# Speakers

Putting you in touch with up-to-date subject knowledge

**Dr Susanne Shultz** is Royal Society University Research Fellow at the University of Manchester, having moved there in 2013 from the University of Oxford. Her research interests include the evolution of behavioural complexity and flexibility with the goal of understanding the evolutionary pathways driving evolutionary changes in cognitive architecture. She has contributed to BBC Radio 4, New Scientist and various other media outlets.

# Teacher Leader

All of our days are developed and led by practising teachers

**Catherine Russell** is Head of Biology at Altrincham Girls' Grammar School, which is a Lead School for Biology. In 2014 she won the Royal Society of Biology's School Teacher of the Year award. She has a BSc in Environmental Biology and an MSc in Pollution and Environmental Control from the University of Manchester. Catherine has been a Teacher Leader for the PTI for four years and delivers Science CPD for the Science Learning Partnership.

## **Developing and embedding maths skills throughout the GCSE curriculum**

*With so much additional content in the new GCSE it can be tricky to see how to develop students' maths skills. Delegates will consider ways to link maths to the required practicals and differentiate activities to challenge all learners.*

## **The challenges of A level maths questions in biology: statistics, data interpretation and multi-step calculations**

*In this workshop delegates will practise statistical tests and look at contexts for developing them in lessons. We will examine unfamiliar ways data is displayed in exam questions and in the media.*

**“The day was informative and thought provoking, with up-to-date science to take back to colleagues and students.”**

- Rob Plested, Stewards Academy | Science CPD Day participant 2016



## **About The Prince's Teaching Institute**

**We know that for every student in every school, every teacher matters.**

The PTI is a charity run by teachers, for teachers. We re-engage teachers with their specialist subjects, inspiring them to bring enthusiasm into class and raise the aspirations of their pupils.

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