

# Inspiring the Next Generation of Mathematicians

## Who are the FMSP and what do they do?

The Further Mathematics Support Programme (FMSP) is supported by the Department for Education and managed by Mathematics in Education and Industry (MEI), an independent educational charity.

FMSP Area Coordinators, covering the whole of England, work with schools and colleges to support and promote the study of AS/A level Mathematics and Further Mathematics and to arrange Further Mathematics tuition for students when their schools and colleges cannot provide it themselves.

## ORiS proudly supports the work of the FMSP

The FMSP organises a range of events for students including mathematics enrichment events, competitions and conferences for 11-16 and post-16 students.

ORiS volunteers can deliver a carousel of interactive workshops or deliver a keynote presentation at enrichment events running throughout the year across England and Wales.

## Get Involved

Get in touch with The OR Society's Education Officer if you would like to receive further information about FMSP events in your local area. Email [schools@theorsociety.com](mailto:schools@theorsociety.com)



# Careers Talk at King Charles I School

## Who was the talk for?

The talk from us was aimed at Y11 students - they were finalising their A level choices and therefore this talk happened at a timely occasion to ensure uptake of maths after GCSEs. The purpose of the visit was to show their high ability students other careers are available in IT and Maths apart from the well know ones such as a Games Designer!

## What did the talk include?

Since students had not hear of Operational Research (OR) before, the talk included general information about what it was, alongside who works in OR and what they do. It ended with a case study from someone working at IBM.

## How did it go?

"The PowerPoint presentation was pitched at just the right level, I felt, and the students found it both interesting and informative. The speaker engaged the students from the start, and ensured they were comfortable asking and answering questions- no mean feat when dealing with teenagers!

I spoke to some of the students afterwards, and they were very positive about the talk. One of them is going to investigate getting some work experience in this field; another has already spoken to staff about possible A levels to support a related degree. It was also great to see their enthusiasm as they told me that they had used something they learnt in Matthew's talk to answer an exam question in their Computing lesson later in the day- an immediate example of the relevance of OR!"



# Maths Workshops at Mounts Bay Academy

## Who was the workshop for?

Two different interactive workshops, each lasting about an hour and a half were used with a Y9 maths class. The first one used lego and involved building tables and chairs and the second one involved making paper cups and seeing if the process could be done quicker a second or third time.

## What topics did it cover?

The first workshop included using mental arithmetic to add, subtract and multiply. It also used algebra to create two equations related to the number of lego bricks. Finally, these equations were plotted onto a graph, therefore covering the plotting and drawing of a straight line graph.

The second workshop covered optimisation and finding the best way of doing things. It got the pupils to think logically through puzzles and develop their problem solving skillset. As an extension task, the paper cups exercise was used to calculate and interpret the mean, standard deviation and variance.

## How did it go?

“Sessions were fun, interactive and engaging. Fantastic resources and great delivery. Content was fully relatable to school maths. Nice extension opportunities. The paper-cup activity in itself was great fun and pupils got the idea of optimisation.”

## Get Involved

Visit the OR society's website and request a visit by the OR in Schools team by completing the online form [here](#).



# Stemettes – Encouraging Female Talent in STEM

## Who are the Stemettes and what do they do?

Stemettes is an award-winning social enterprise working across the UK & Ireland and beyond to inspire and support young women into Science, Technology, Engineering and Maths careers (known collectively as STEM).

Their mission is to inspire the next generation of females into Science, Technology, Engineering and Maths (STEM) fields by showing them the amazing women already in STEM via a series of panel events, hackathons, exhibitions, and mentoring schemes.

## ORiS proudly supports the work of the Stemettes

The Stemettes regularly organise events and ORiS volunteers support this initiative by helping out in various ways. This could include; delivering a keynote presentation, becoming a panel member, participating as a judge, being informally interviewed and much more!

## #MonsterConfidence

The Stemettes organise annual #MonsterConfidence events across the UK and Ireland, which provide young females with Interview Practice, Inspirational Talks, Career Workshops and the opportunity to build their network.

## Get Involved

If you're holding a Stemettes style event, or would like a visit from a professional working in Operational Research, email the Education Officer on [schools@theorsociety.com](mailto:schools@theorsociety.com)

