



Advanced Mathematics  
Support Programme®



# Year 10 & 11 Christmas Lecture at Teesside University Middlesbrough

16th December 2021

## Overview

As part of our annual KS4 enrichment provision, we have teamed up again with Teesside university and organised our already traditional Christmas Lecture. We have added a Careers Q/A Panel that will include students studying STEM and professionals who will share how they use mathematics at their everyday jobs.

This will be an inspirational day with invited guests and speakers, including the well-known Colin Wright.

Colin graduated in 1982 from Monash University, Melbourne, Australia, with a B.Sc.(Hons) in Pure Mathematics, and went on to receive his doctorate in 1990 from Cambridge University, England. While at Cambridge he also learned how to fire-breathe, unicycle, juggle and ballroom dance. Since then he has worked as a research mathematician, a computer programmer, and an electronics hardware designer, taking time to give presentations all over the world on "Juggling - Theory and Practice." Colin also enjoys sailing small boats and playing bridge, although not (so far) at the same time. In his talk "Patterns and Predictions", we will see some patterns that work, some that fail, see how maths helps us make sense of it all, and even find patterns where we might not have expected ... in juggling! Patterns are everywhere, and we use them to make important decisions. But while they are often a good guide, sometimes they can mislead us, and we might wonder if they can really be trusted.

Following on from Colin's talk, we will have a brief career maths post 16 overview, highlighting the opportunities that maths and STEM subject study can provide for students before handing over to speakers from both business and university sectors who will outline their current roles, how they got there, how what they do makes life so exciting, and where they think their next steps will take them. There will be opportunities for students to ask questions.

## Who will benefit from attending?

Year 10 and 11 students and their teachers.

Please try to encourage prospective Core Maths, A Level maths and Further maths candidates to attend. That may include even those students who would be suitable but may not currently be considering maths as an option post-16.

## Other Information

**The capacity of the theatre is 250 students but we would like to limit the number of students to a maximum of 180, allowing attendance from about 12 schools.**

There will be break at around 10.30 am. Students need to bring a snack and a bottled drink. Please advise students not to bring any food containing nuts, as there might be students who have nut allergies. Tea/coffee will be provided for the teachers.

Please make sure your staff and students have their face masks. The advice regarding Covid and whether masks will be compulsory will be provided closer to the event date and communicated via email by Valerija Peles.

## Eligibility

This event is free for all state-funded schools.

## Key Facts

<b>Event ref:</b>	#9124
<b>Audience:</b>	Students
<b>Target year:</b>	Year 10 & 11
<b>Curriculum focus:</b>	11-16 maths, A level Mathematics, A level Further Mathematics, Core Maths
<b>Mathematical focus:</b>	Statistics, Pure, Problem solving, Reasoning, Maths in other subjects
<b>Event format:</b>	Enrichment
<b>Region:</b>	North East
<b>Venue:</b>	Europa lecture theatre, Teesside University, Middlesbrough, Tees Valley, TS1 3BX
<b>Start date:</b>	Thu 16th Dec 2021
<b>Course times:</b>	09:15 - 12:30
<b>Fee:</b>	Free

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9124>