West London Teacher Network

Fun with Proof - how understanding of proof can support students in KS5

26th January 2022

Overview

The West London Teacher Network is an AMSP funded project allowing teachers of maths to meet, to collaborate and to share professional development. Initially meetings will be held online but we hope to be able to hold them face-to-face later in the academic year.

Agenda

- Teaching proof from the basics upwards, including communicating mathematically
- Squeezing the max from some juicy proofs
- What are the high level messages from this set of proofs?

Content

Proof is arguably the single most important topic in the A level Maths curriculum, so why do we find it such a challenge to give students a good grounding in this? In this session, we'll look at teaching proof from some basics upwards and consider how we can distil the experience we have gathered into something that students can benefit from swiftly.

Several forms of proof will be discussed, including proof by contradiction.

Aims

- Teaching proof from the basics upwards, including communicating mathematically
- Transferring the proof experience you have gathered over years into the brains of your students
- Share different examples of proof and refresh our enthusiasm for challenging mathematics

The meeting will be led by Jo Sibley who lives on the sunny south coast in Poole and has taught Maths and Further Maths for 21 years. She has been an FMSP Area Coordinator and is now on the AMSP National Team as the Coordinator for Online Professional Development.

Materials and Equipment

We recommend that you have the following available for the session:

- A working microphone, to facilitate discussion
- A mini whiteboard
- A beverage of your choice, working on the principle that "a mathematician is a machine for turning coffee into theorems..."

Electronic copies of all resources used will be available after the event.

The session will be remote and will take place on zoom, as such you will need a laptop/desktop computer or other internet enabled device. You will be sent a link to join the meeting a few days prior to the event.

Key Facts

Event ref:	#9238
Audience:	Teachers
Curriculum focus:	A level Mathematics
Mathematical focus:	Pure, Reasoning
Event format:	Network meeting
Event length:	1.5 hours
Region:	London and South East
Venue:	Online
Date:	Wed 26th Jan 2022
Course times:	16:15 - 17:45

Registration

For more information, or to register for this event, please visit https://amsp.org.uk/events/details/9238