Kat Does Maths

How I learned to stop worrying and love the 'Comm

PiWorks



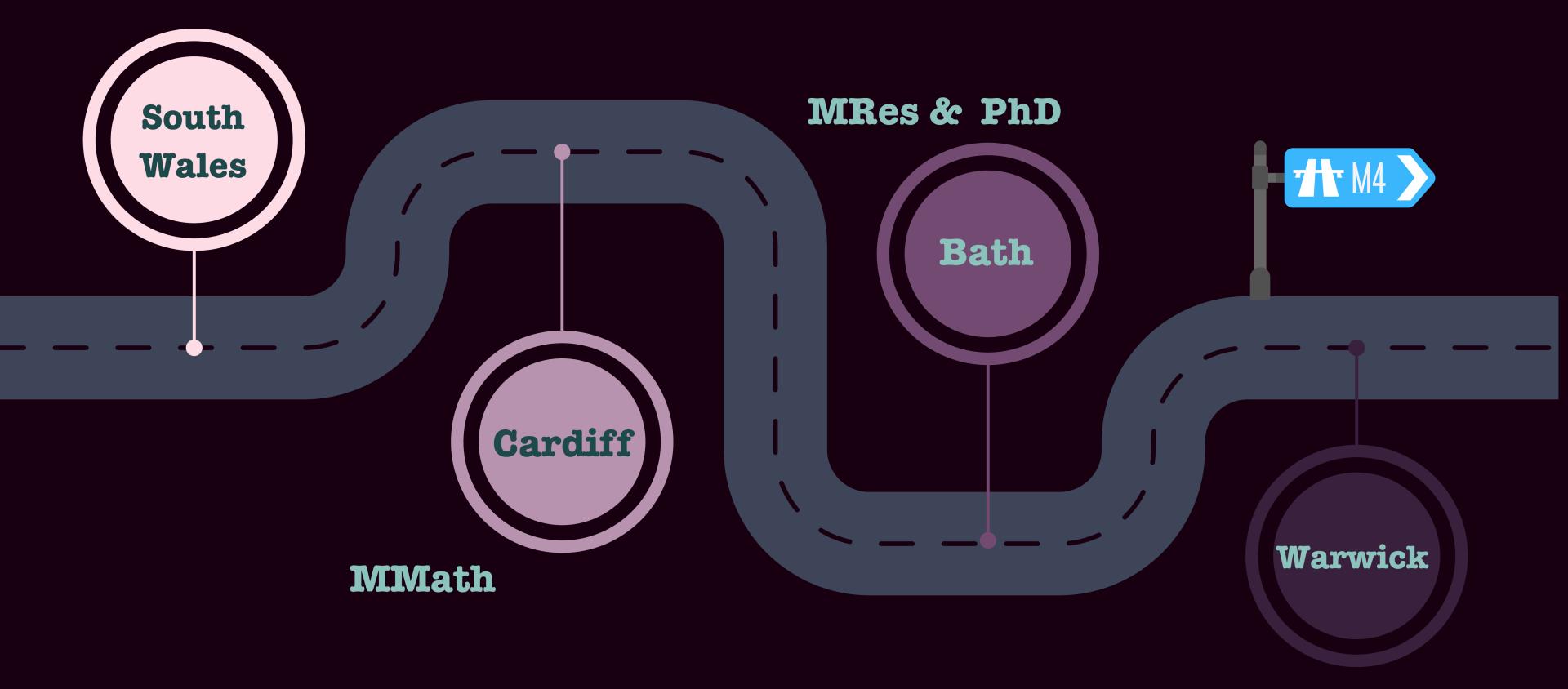


Innovation Research Associate

@katdoesmaths

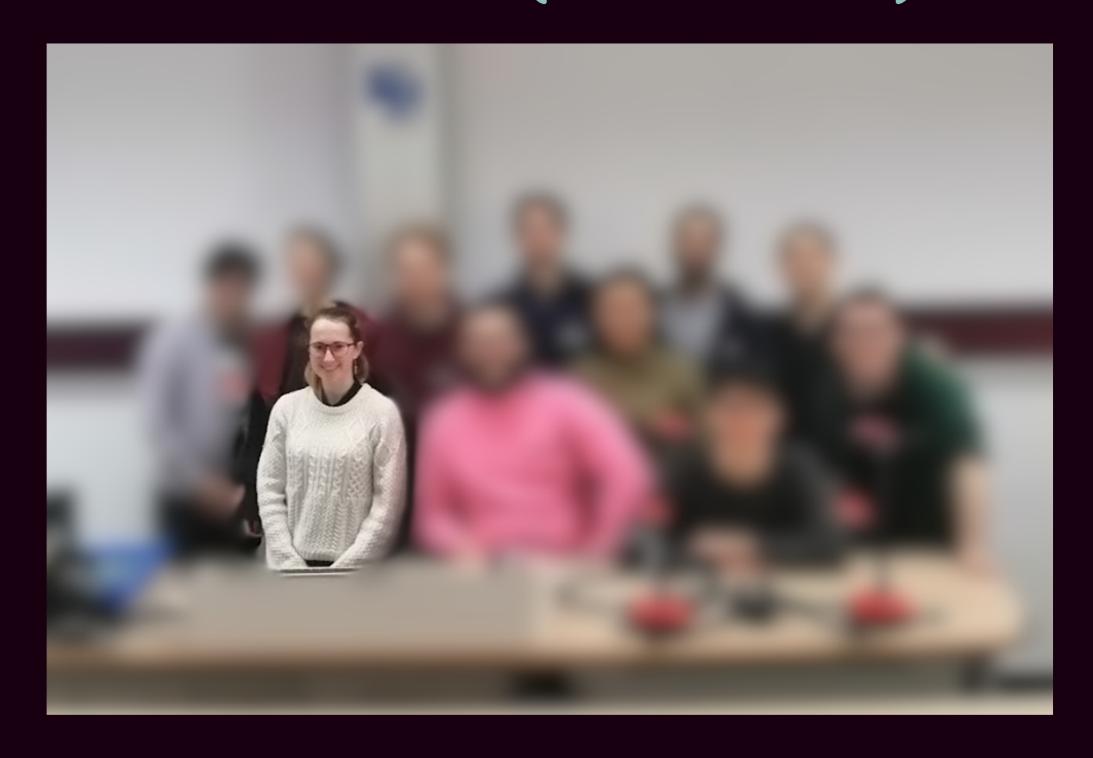
https://katdoesmaths.me

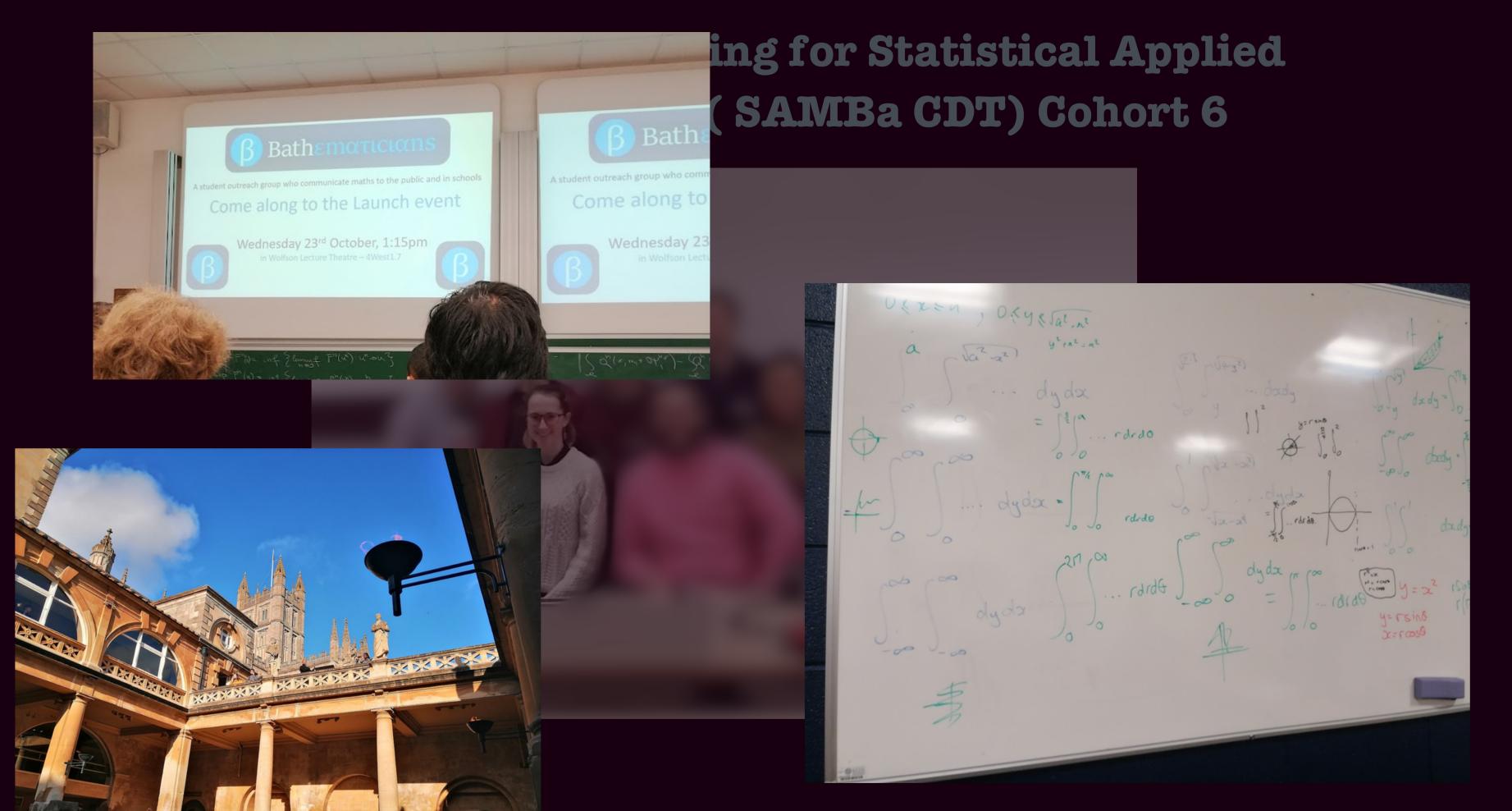


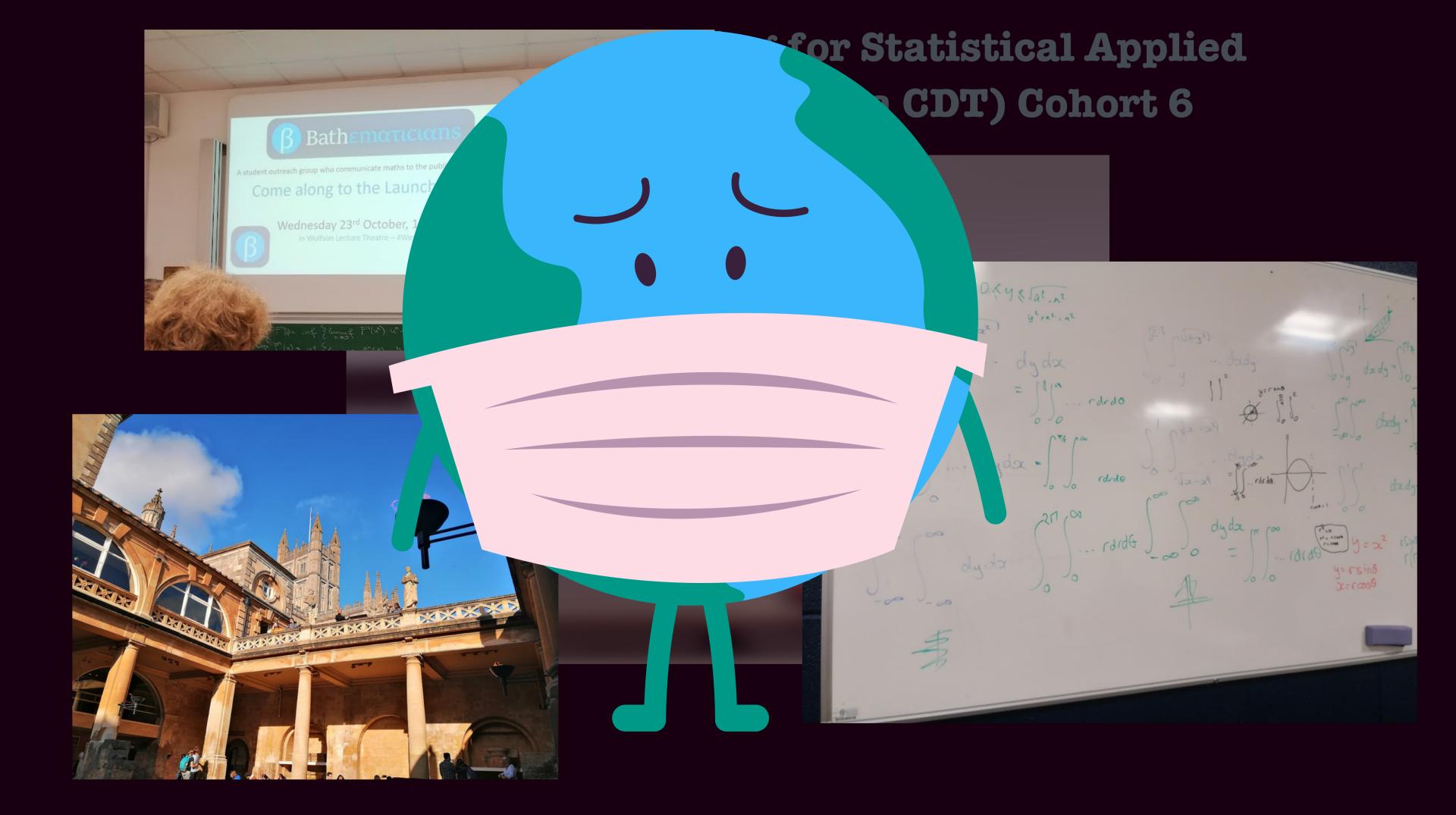


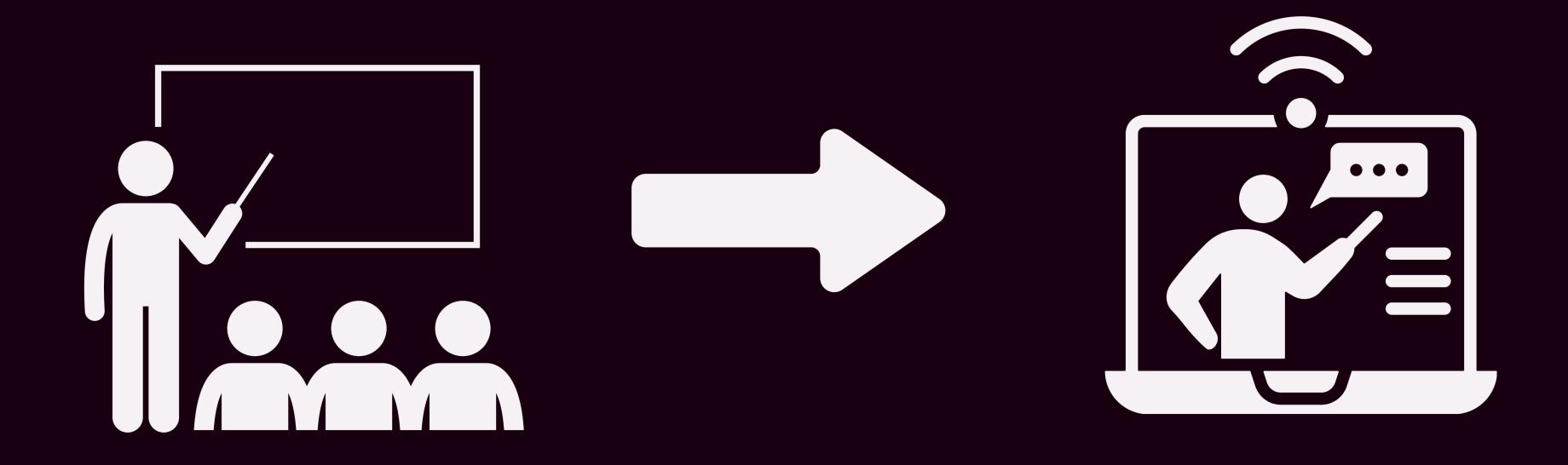
Innovation Research Associate

Centre of Doctoral Training for Statistical Applied Mathematics at Bath (SAMBa CDT) Cohort 6

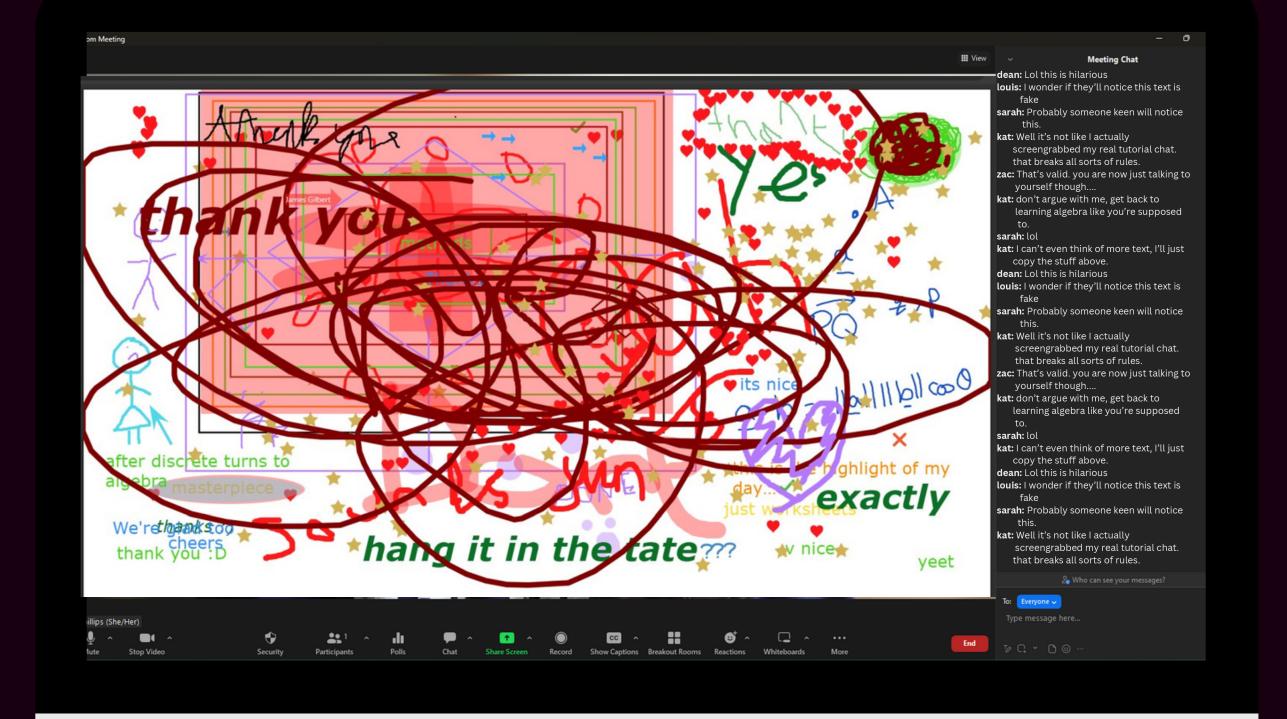


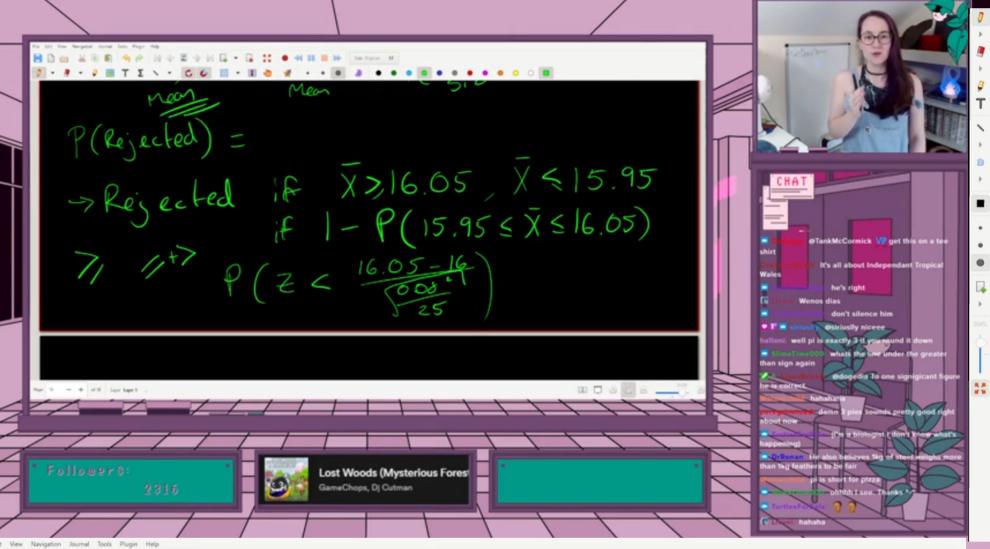












Forename(s)

Candidate signature



GCSE **MATHEMATICS**

Higher Tier Paper 1 Non-Calculator

Н

Thursday 25 May 2017

Morning

Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

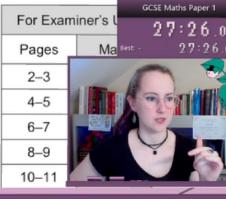
mathematical instruments.

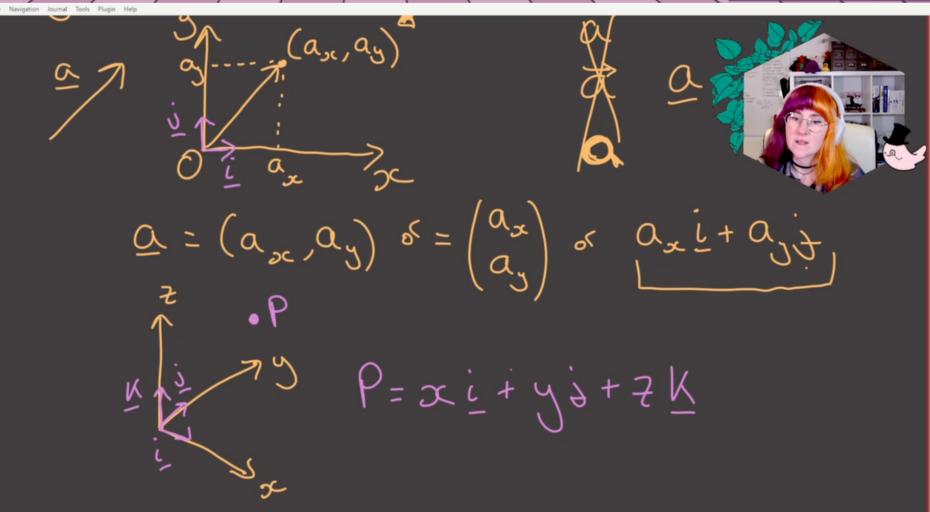
You must not use a calculator.

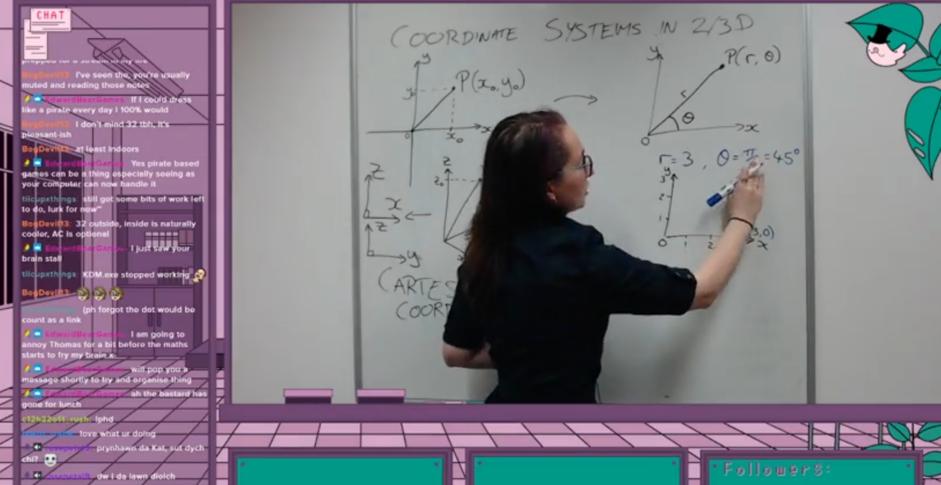


Instructions

• Use black ink or black ball-point pen. Draw diagrams in pencil.









And since then?

















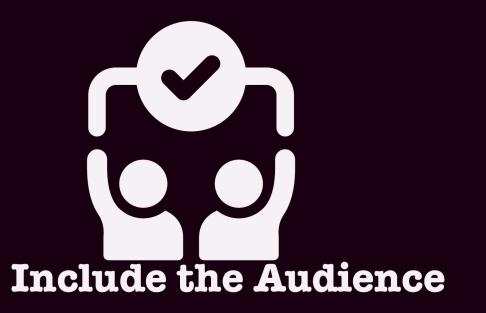
The World's a Stage

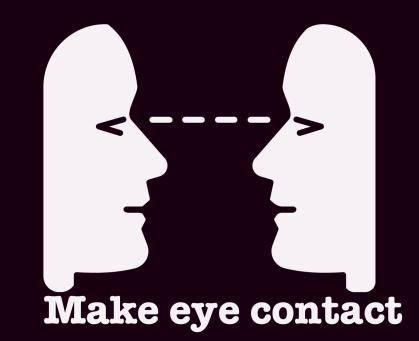












OUTREACH

Focus on promoting enjoyment of a field through taking content to those who wouldn't have previously had access.

WIDENING PARTICIPATION

Focus on entrance to higher education, specifically helping with awareness of available options regardless of background.

PUBLIC ENGAGEMENT

Focus on the knowledge exchange between audience and researchers. A mutually beneficial feedback between learning and research generation.

AUDIENCE

Who is it that you are speaking to?

What assumed knowledge does the audience have?

How big is the audience?



PURPOSE

What is the purpose of the talk?

Are you getting something from it too?

Are there clear goals?



FORMAT

Are you online, hybrid, or in person?

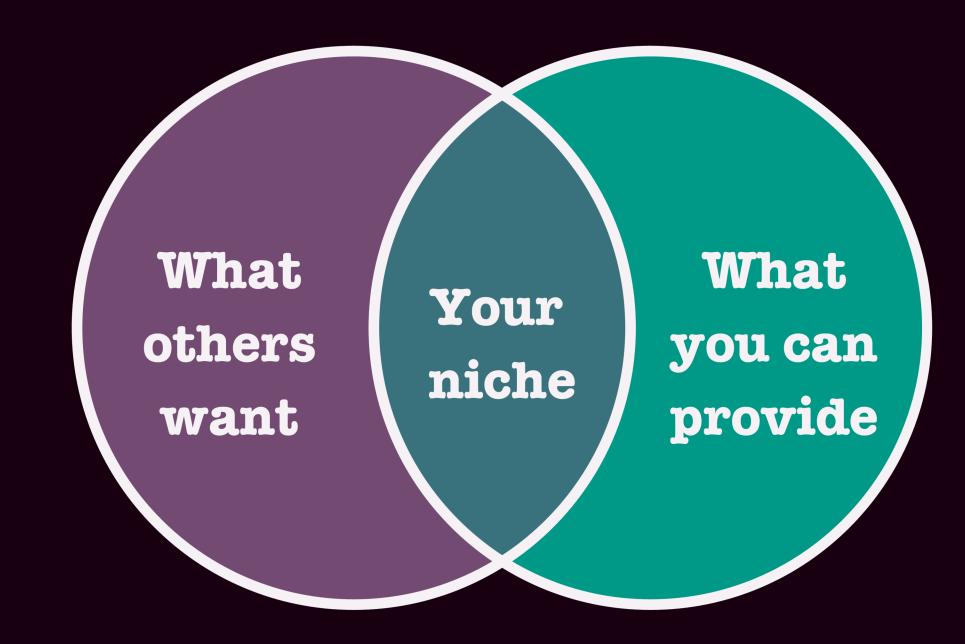
What resources can you have to hand?

Is there opportunity for interaction?



Live in 3, 2, 1...

- 1. Know your set up
- 2. TEST EVERYTHING
- 3. Storyboarding is your friend
- 4. Use your Format to your advantage
- 5. Find your niche
- 6. Learn from others
- 7. Plan the Moderation

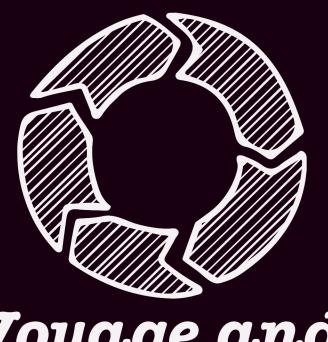


Types of Added value:

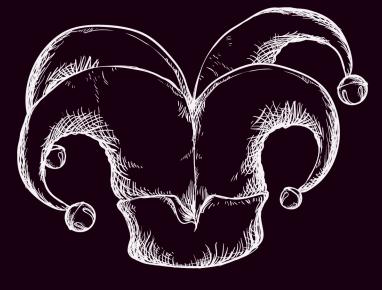
- · Make life easier for others
- · bridge knowledge gaps structured digestible content
- · align interests to organizational needs
- · be proactive not reactive

MAKE IT A STORY









Comedy





Mystery

Consume the content you want to make!

Video Essay - 3Blue 1 Brown, CGP Grey, Stand Up Maths, Tom Crawford

Vlogs - Numberphile, Ellie Sleightholm, Harry Surplus, BEHIND THE RESEARCH

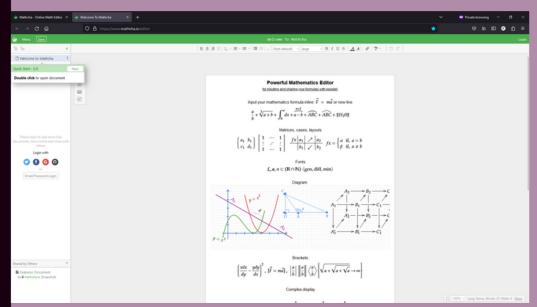
In Print – Ian Stewart, Matt Parker, Hannah Fry, Kit Yates, Chalkdust Magazine,
The Aperiodical, Terrance Tao

Podcasts – The infinite monkey cage, The Numberphile Podcast, Mr Barton Maths, How to make a science video, THE UNSTABLE FLUID PODCAST

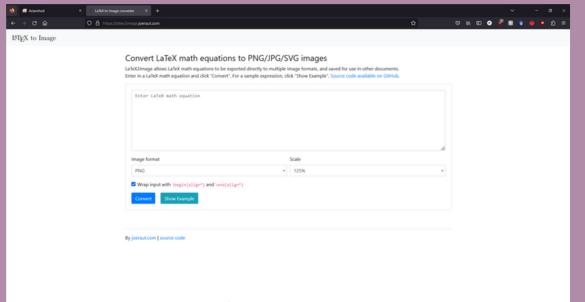
Social Media – /r/DataisBeautiful, @neildoesmaths (TikTok), @thejennypowerhour (Insta)

LiveStreams – The Knowledge Exchange, KATDOESMATHS, DrSimonClark, An
evening of unnecessary detail

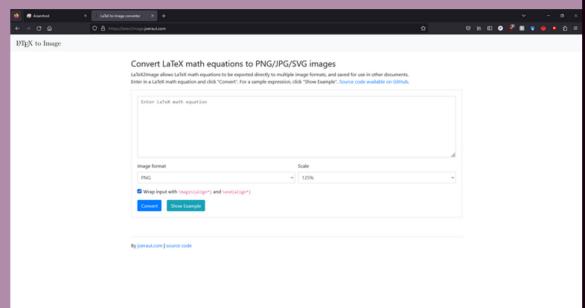
Tools of the Trade: Maths but make it pretty!



https://www.mathcha.io/

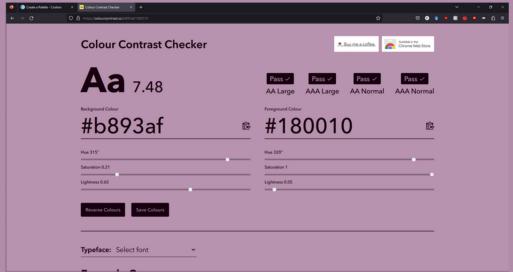


https://viereck.ch/latexto-svg/

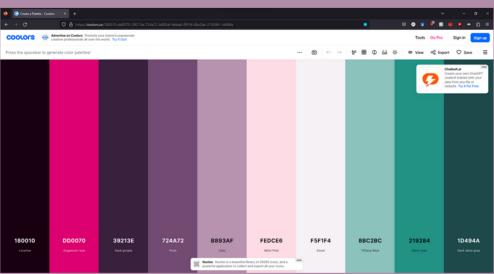


ilovepdf.com

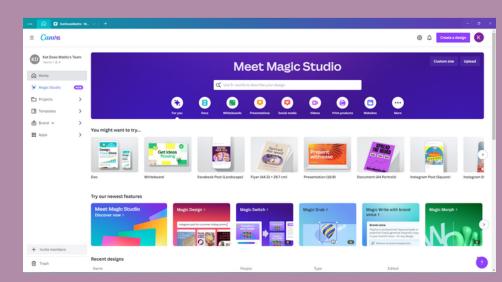
Tools of the Trade: 'Brand' Aesthetics



https://colourcontrast.cc

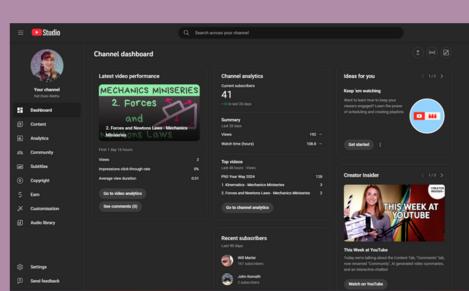


https://coolors.co/

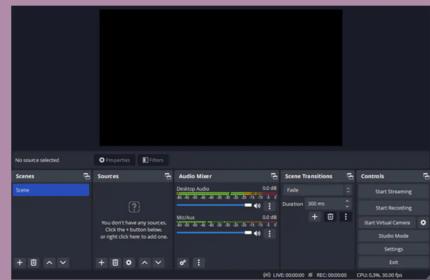


https://canva.com

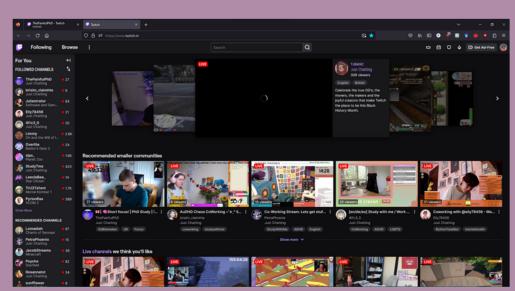
Tools of the Trade: LiveStreaming



YouTube



Open Broadcasting Software (OBS)



Twitch

My advice:

- · See what's missing from what's out there
- · Consume the media you want to create
- Experiment and iterate
- Think about mutual benefit
- · Don't wait for permission
- DO IT SCARED
- · It's okay to evolve

PHD YOUR WAY



Free UK Maths PhD Information Event



- Info Booklet
 - Before the event get sent detailed, easy to read information about each institution.
- Talks
 - What a typical day in the life can look like from a current PhD Student.
 - Admissions and the application process from a current admissions tutor.
- PhD Panel
 - Live curated Q&A session with a range of current PhD students.
- University Fair
 - Visit a virtual university fair and get the opportunity to talk to current PhD students from a range of institutions.



Reigster to attend!









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