

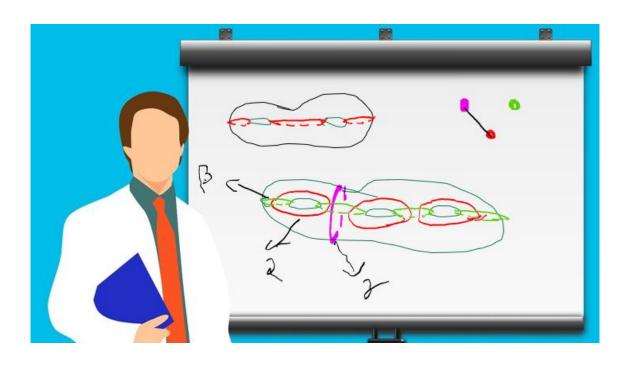
Challenge

- Grab a scarf
- Pick the ends with your hands
- Tie a knot without letting go of the ends



Public Engagement and Outreach

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Public Engagement? Why?



What do you get in return?

- Communication skills
- Organisation skills
- Increased passion and enthusiasm
- Fun

Different
ways to do
Public
Engagement

Communicate your research

 Involve the community in your research (e g citizen scienceartists/scientists collaborations)

 Communicate research methods and research processes

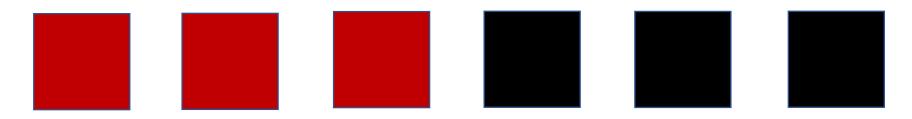


Challenge

- Grab a scarf
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Game

- You have £128 and 6 cards: three red, three black
- In every round you bet half of the money you have, and you have to play one of the cards
- If you play a red card you gain your bet
- If you play a black card you loose your bet
- You need to play all the cards



What is the best strategy?

Activity from Rob Eastaway: https://robeastaway.com/



Mathematical learning

- Conjecturing
- Proving
- Generalising

Extension Questions

What if I had one more red card?



- How many red cards do you need to make the game profitable?
- How many red cards do you need to undo the effect of a black card?

Top Tips

- It is a dialogue, not a monologue
- Know your audience
- Less is more

Get Inspired

- Rob Eastaway: https://robeastaway.com/
- Numberphile youtube channel
- Vihart: https://www.youtube.com/user/Vihart/videos
- Mat Parker: https://www.youtube.com/user/standupmaths
- nRich: https://nrich.maths.org/
- Youcubed: https://www.youcubed.org/
- UoE Outreach Webpage: https://www.maths.ed.ac.uk/school-of-mathematics/outreach

Thank You

Communicating Maths to the community is part of your development as a researcher

It is always a two way communication

Contact me at Francesca.iezzi@ed.ac.uk