



Maths on the Loose
Years 1, 2 and 3 - Term 3, 2021

Fee \$108

King Sparky and the Knights of the Square Table *with Ash Reddy*

Join King Sparky and his knights (and bishops, and rooks, and pawns, and the queen) of the square table on a quest to capture new land and add it to their black-and-white kingdom! Utilising game theory, pattern recognition and spatial reasoning, you and your questmates will navigate your way through an array of mathematical and geometric challenges centred around the chessboard. Designed to have you refine your problem-solving strategies and hone your tactical efficiency, succeeding at these tasks will also help you claim as much of the board as possible in King Sparky's name...! *For chess novice and experts alike – are you game?*

Ash runs a company called Chess Mates that teaches 2000 students on a weekly basis about how to play and improve in chess. Ash has a keen interest in emotional intelligence and is very excited about expanding your child's mathematical and logical mind in different directions.

Green Thumbs Gone Wild! *with Cassidy Gilders*

Ferns and flowers, cactii and creepers, green leaves and giant lianas – this crazy greenhouse is a mess, with everything jumbled together (and possibly a few new species germinating underneath it all!). Each plant needs to be placed in just the right spot to receive what it needs to thrive (light, water, nutrients from the soil, etc.), alongside others with similar features. You mightn't think it at first – but this needs a mathematician to make sense of it all! You've been recruited to help get things back in order by using your mathematical knowledge, categorisation skills and a Venn diagram to best display how to distribute these little green specimens and get them growing!

Cassidy is a biology graduate with a passion for all manner of leafy green and creepy crawly sciences. She spends an awfully long time trying to figure out what might be wrong in her garden and trying ANYTHING to get it back to rights. Cassidy has five years' experience inspiring disadvantaged young people to pursue study and careers in STEM through her interactive workshops.

Rhinos Coming And Going *with Declan Cavanagh*

The Run Free animal conservation park is very proud of its herd of rhinos, which they know has been growing steadily for the last few years – but the last rhino carer has just quit, and they've left the records in a total mess. To prepare for the new keeper, you've been brought in to investigate the data and make sense of it all. We need to graph the growth of the rhino population up until now and predict how big it will grow in the future, as well as consider forecasting what might happen, mathematically speaking, if these rascally rhinos were to find a way through a fence and break out of the park...! In this workshop you'll explore the cartesian plane and co-ordinate geometry, develop your knowledge of number patterns and discover how to use linear relationships to predict and graph growth.

Declan has a background in mathematics and finance, and having worked for wealth managers he has a unique perspective on learning mathematical concepts. Currently, he tutors all age groups in mathematics and has found a love for teaching and learning. He approaches traditionally hard-to-grasp topics with interesting and relatable content for the kids and is very interactive and animated. Declan has a passion for stimulating the Eureka! moment in a student and being a part of the journey towards developing academic independence.