

# MATHEMATICS AND CAREER EXPLORATION

## YEAR 9



*These resources are proudly supported by Toyota Community Trust, Australian Mathematical Sciences Institute, Australian Centre for Career Education, Aurecon Group, and Champion Data.*



## Sports Statistician

Meet Karl Jackson, a sports statistician at Champion Data, and find out how maths plays a part in his work.

How are statistical methods used to analyse sports performance?



<https://youtu.be/zDVb3PCcUmU>

## Access All Areas – Champion Data

How does Champion Data  
collect AFL statistics?



[https://youtu.be/ZURJqa2WNdM  
?si=A\\_kCwv9k\\_u5JqCjr](https://youtu.be/ZURJqa2WNdM?si=A_kCwv9k_u5JqCjr)

For more teacher and student resources including job ads, career profiles and videos visit [careers.amsi.org.au](https://careers.amsi.org.au)

From computing and robotics to medical research and engineering, maths is critical to so many careers.

The screenshot displays the 'MATHS CAREERS' website interface. At the top, there is a navigation menu with links for 'JOB ADS', 'PROFILES', 'VIDEOS', 'STUDY TIPS', and 'PARENTS & TEACHERS'. The main content area is a grid of nine video thumbnails, each with a red play button icon. Below each thumbnail is the video title and a short introductory text snippet.

Video Title	Introductory Text Snippet
Tuning into Statistics	Science and medicine rely heavily on data and statistics. Bioinformatician Saskia Freytag uses the power of data to reveal the ...
Protecting Forests with Maths	Forest Scientist Cristina Aponte uses Maths to study and protect our forests. In nature, just like in Maths, there is ...
Competing with Maths	Lesley West has a Bachelor of Mathematics & Statistics from the University of Strathclyde. She also competes as an amateur ...
Dreaming up Robots with Maths	Marita Cheng is the Founder of the International organisation Robogals, designed to encourage more women into Engineering. She is also ...
Climbing with Maths	Solai Valliappan has a Bachelor of Commerce (Actuarial Studies) from the University of NSW. She is a Fellow of the ...
Taking Off with Maths	Lee Turnley has a double degree in engineering and science (biotechnology) from Swinburne University and is a Composite Research Engineer ...
Coding Up a Revolution	Co-founder of Code Like a Girl, Ally Watson has a degree in computer science from Glasgow University in Scotland ...
Reaching the Stars with Maths	Karlie Noon was the first Indigenous Australian in New South Wales to complete a double degree in Maths and Physics ...
Fighting Malaria with Maths	Lyndal Henden is a Post Doc Researcher at the Walter and Eliza Hall Institute of Medical Research. Her research focuses ...

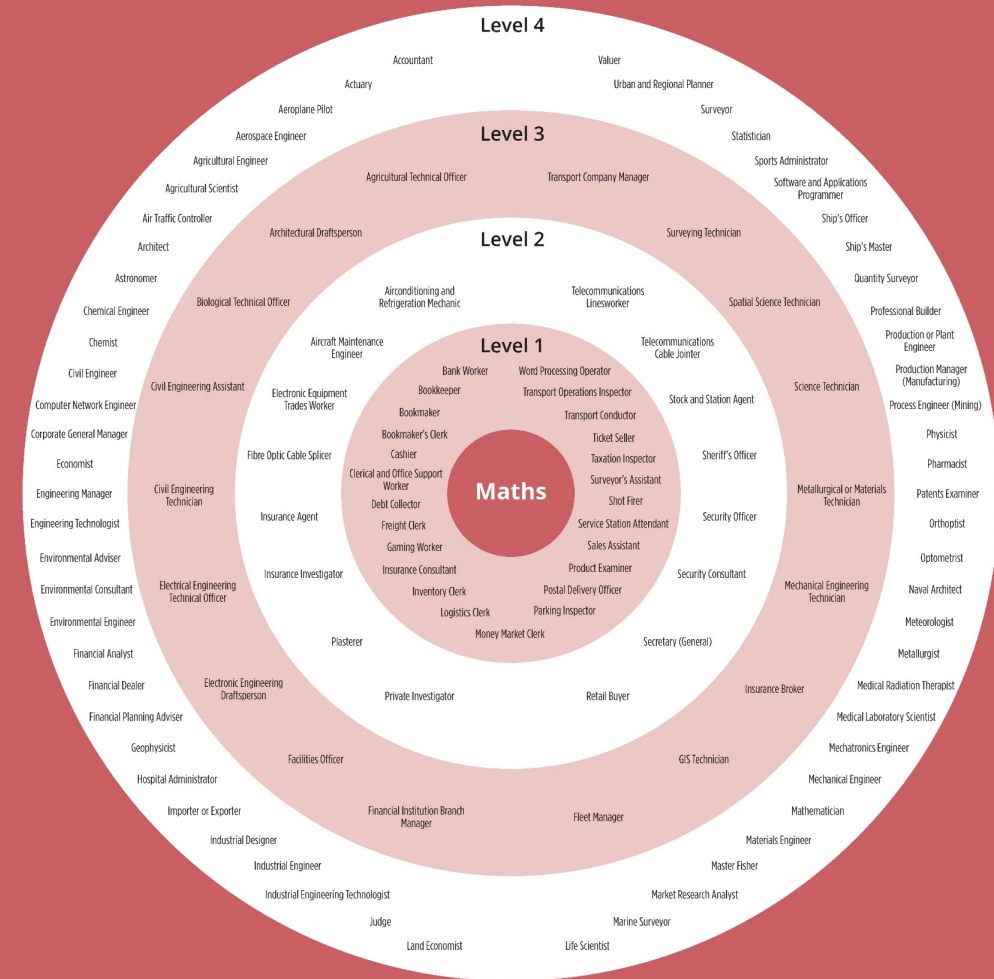
# Do you enjoy or are you good at **Maths**?

# Where can Maths take you?

Visit <https://myfuture.edu.au/bullseyes>

- A Career Bullseye chart shows a selection of occupations that are related to mathematics.
- The rings of the bullseye show the skill level required for those jobs, with level 1 usually requiring completion of year 10 or a certificate I or II, and level 4 usually requiring at least a bachelor's degree or higher.
- What does the wide range of occupations and industries on the bullseye tell you about the importance of maths in the world of work?
- Were there any occupations that you were surprised to see on that list? Why/why not?
- Do you know anyone working in one of the occupations on the bullseye?

**Complete Year 9 Worksheets 1 and 2.**



## Training levels and requirements

**Level 1**  
Usually has a skill level equal to the completion of Year 10, a Senior Secondary Certificate of Education, Certificate I or II, Australian Apprenticeships may be offered at this level.

**Level 2**  
Usually has a skill level equal to a Certificate III or IV, or at least three years relevant experience. Australian Apprenticeships may be offered at this level.

**Level 3**  
Usually requires a level of skill equal to a Diploma or Advanced Diploma. Study is often undertaken through TAFE's or Registered Training Organisations. Some universities offer studies at this level.

**Level 4**  
Usually requires a level of skill equal to a Bachelor Degree or higher qualification. Study is often undertaken at a university.

This chart shows a selection of occupations that have some relation to the subject of **Maths**. The four education and training levels are to be used as a guide only. These levels indicate the most common education and/or entry requirements for these jobs.

For further information, visit:  
[www.myfuture.edu.au](http://www.myfuture.edu.au)

