













### **Dancing with Maths**

Karin Ditchfield has a Bachelor of Mathematics and Economics from University College London. She is now a Principal in the Portfolio Strategy and Development team at BHP.

Discuss the kinds of problems Karin from BHP might solve.



https://youtu.be/WUGFGl0CsNU





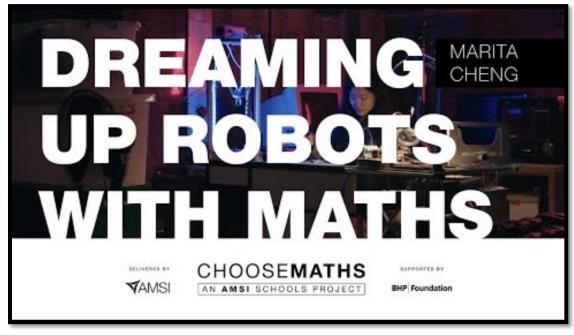






# Dreaming up Robots with Maths

Marita Cheng is the Founder of the International organisation Robogals, designed to encourage more women into Engineering. She is also the CEO and Founder or Aubot.



https://youtu.be/\_4MxBbjvrjo











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

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#### **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,



#### 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



#### 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.









## **Year 8 Worksheet – Growing Patterns**

- How do you see the pattern growing?
- What is the next figure in the pattern?
  How many blocks does it contain?
- What is the 10th item in the pattern and how many blocks does it contain?
- Draw a table (chart) like the one below and complete it.

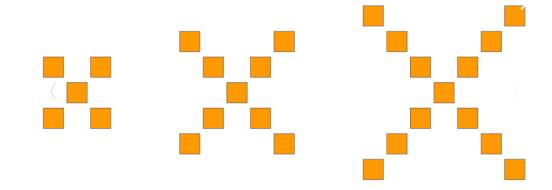


Figure no.(f)	1	2	3	4	5	6	7	8
No. of blocks (b)	5	9	13	17				

Does this table make it easier to predict how many blocks will be in later figures?