It Takes a Spark!
STEM Conference

Frederick Irwin Anglican School Tuesday 16 September 2025

Room and participant numbers

Notes:

- T = teacher, PS = Primary Student, SC = Secondary Student.
- If you have Secondary students in a session that is mostly Primary focused, they are Yr 7 students
- If you have Primary students in a session that is mostly Secondary focused, they are extension or Yr 6 PS

Workshop Rotation One: 9.40am – 10.20am (40 min)

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
Threads of Connection Peter Carnley Anglican Community School	M1 Textile Lab	Vanessa Krollig Katie Frampton	7T	3
Equipping students to be "Future Ready" Gosnells Robotics Club Network	D1	John Townley Larissa Waghorn	13T	2
Maths Made Meaningful University of Adelaide – Maths in Schools Project	D2	Dr John West	10T	5
Digi-Design Mini-Workshops	**Room**	**Presenting**	**Attending**	**Extra Space**
Emergency response: Drone missions in flood zones Al-Ameen College Year 4 - 6	D3	Marwa El-Ayashy + 5 students	3T + 18PS	**FULL**
Game On! Coding Creativity with MakeCode Arcade Elle Burgess and Kate Lockhart Year 5 - 8	D5	Elle Burgess Kate Lockhart	1T + 7PS + 20SC	**FULL**
Discovering the Secrets of Light Einstein First Year 6 - 8	D7	Anastasia Lonshakova	4PS + 9SC	7
Moving and Grooving with Granny: Creating digital solutions to help our elderly exercise Australian Computer Society Year 4- 6	D8	Catherine Newington	3T + 25PS	**FULL**
Building Worlds Greenfields Primary School Year 4 - 6	J12	Yasmin Karim-Bell Mitchel Brabyn + 5 students	3T + 18PS	**FULL**
DNA Extraction The Australian STEM Project Year 4 - 10	J14	Lilijana Nicholls Joshoa Zilani	2T + 14PS + 13SC	**FULL**
Orbital Lab Perth Observatory Year 5 - 9	B3	Jenny Gull Joanne Ludlow	5T + 3PS + 23SC	**FULL**
Plastic Recycling in Action: From Waste to Useful Products Peter Carnley Anglican Community School Year 4 - 10	B4	Bev Wild + 4 students	2T + 8PS + 12SC	**FULL**
The AI ate my homework! Cultivating Curiosity Year 4 - 7	Oakmont Theatre P1	Amanda Larkin Amos Rogers	3T + 39PS	18
Virtual and Augmented Reality Dale Christian School Year 4 - 8	Computer Lab P4	Lindsay Hall Linda Mackenzie + 4 students	2T + 22PS + 6SC	**FULL**

Dark Skies Bloom: Centre for Youth Innovation Year 7 - 10	P16	Maree Whiteley Thomas Lenette	2T + 22SC	11
VR Digital Storytelling School of Isolated and Distance Education Year 5 - 10	Computer Lab G2	Hayden Brown	1T + 5PS + 10SC	**FULL**
STEM Expo	**KSC**	**Presenting**	**Attending**	**Extra Space**
STEM in the Navy Submarine Recruiting Year 7 - 10	**KSC**	Marlie van Heerden Stuart Mayor	10T + 76PS + 53SC	10
Melting Metal Mementos Assumption College Warwick QLD Year 7 - 10		Mark Baker		
MagLev Technology WeBuild Year 4 - 10		Laura Loughnan Kay Zin Jeremy Sean		
STEM Outreach Program (AusEarthEd) Australian Earth Science Education Year 7 - 10		Hannah Moore Jo Watkins		
The Martian Garden ARC Centre of Excellence for Plants for Space Year 4 - 10		April Harris Adil Khan Elliott Fourie		
Drones to the rescue! Al-Ameen College Year 4 - 10		4 students		
IXL Maths Leaderboard Competition IXL Learning Year 4 - 10		Paul Ralli		
Exploring STEAM with micro:bits Curtin University Year 6 - 9		Tamra Kidner Aleesha Davis Lexie Wallace		
Using Machine Learning to solve real-world challenges Perth College Year 5 - 9		Jesse Ussi + 6 students		
VR Stellar Safari: Journey to the Cosmic Frontier Perth Observatory Year 4 – 10		Matt Woods Mike Erith		
Use It Up! STEAM Mystery Ingredient Challenge OzHarvest Australia Year 5 - 8		Eva Clarey		
Drones – shaping the future South Metropolitan TAFE Year 4 – 10		Barry Hutton Peter Owen		
SailLAB – Australian Sailing STEM Education Australian Sailing Year 5 - 9		Jessica Lundh Kate Henderson		
CME DigiTech Automation Challenge The Chamber of Minerals & Energy of WA Year 4 - 9		Mirela Ionascu Asta Morton		
Travelling Back in Time with WA Organic and Isotope Geochemistry Centre WA Organic and Isotope Geochemistry Centre– Curtin University Year 4 – 10		Lisa Smith + 1 TBC		
STEM in Mining – How Environmental Scientists make a difference Hancock Iron Ore Year 6 – 10		Venicia de San Miguel Ben Fosbery Stacey Cook Jana Peatling Ben Charnley		

STEM in Mining - How Engineers Make a Difference! Hancock Iron Ore Year 6 – 10		Calvin Wang Andrew Prior Karl Davies		
3D Designing and Technology Gwynne Park Primary School Year 4 - 6		Agnes Bilick Kylie Lyon + 12 students		
Cyber Safety and Online Bullying Mandurah Junior Council Year 4 - 10		Kelly Mattravers + 5 students		
Discover and Do: Maths Made Meaningful CSER and University of Adelaide – Maths in Schools Project Year 4 - 8		To open during Morning Tea		

Rotation Two - Problem Solvers Session: 11.00am – 12.20pm (80 min)

Teacher PD Stream	Room	Presenting	Attending	Extra Space
Mastering micro:bits: learn how to engage students in solving real-world problems Curtin University	D1	Tamra Kidner Aleesha Davis Lexie Wallace	10T	5
Good Design - from Creativity to Reality National Committee of Engineering Design of Engineers Australia	D8	Cliff Green	7T	8
Teacher Networking and STEM Pathways	KSC	Adrian Bertolini	12T	3
Problem Solvers	**Room**	**Presenting**	**Attending**	**Extra Space**
Paper Roller Coaster Challenge Mount Barker Community College Year 4 - 10	KSC 1	Jade Maiolo Will Boston + 2 students	5T + 23PS + 2SC	**FULL**
Ethical Hacking – Improving Cybersecurity South Metro TAFE Year 7 - 10	KSC2	Peter Owen	3T+ 14SC	**FULL**
Designing an Ideal Waste Service City of Kwinana Year 4 – 10	D2	Emily Tomsett Riley Debney	3T + 17PS + 5SC	**FULL**
Where the wind blows! Engineers Without Borders – Curtin Chapter Year 4 - 8	D3	Mihir Pareek Anson Hii Devon Clark Chloe Ngau	3T + 18PS + 10SC	**FULL**
Solving Challenges in Public Works Engineering Institute of Public Works Engineering Australasia – WA Year 7 - 10	D5	Cathy Higgs Mashallah Love Angelu Tolentino	16SC	4
The STEM Energy Game Woodside Energy Ltd Year 7 - 10	D7	Jacqui Westcott Isabelle Escott Jaime Dunn Bhamini Shirvastava	2T + 4PS + 12SC	7
Using Lego to Prototype & Test the New Swan River Bridge E^2 Young Engineers Australia Year 4 - 8	J12	Rachael Hughes	3T + 23PS + 7SC	**FULL**
Design Thinking: Rube Goldberg Machines The Australian STEM Project Year 6 - 9	J14	Lilijana Nicholls Joshoa Zilani	4T + 21PS + 6SC	**FULL**
Formula CD Racing Northam SHS Year 6 - 8	B3	Adrianne Waters + Demmielle Bell-Hastie + 8 students	1T + 17PS + 7SC	**FULL**
How can technology shape how we investigate the past? John Curtin College of the Arts Year 4 - 7	B4	Josh Smith, Ben Hopper + 4 students	3T + 12PS + 10SC	**FULL**
Moonbase – Designing to Survive and Thrive ARC Centre of Excellence for Plants for Space Year 4 - 10	B7	April Harris Adil Khan Elliott Fourie	5T + 26PS + 10SC	**FULL**

Are we leading the AI revolution or is it leading us? Cultivating Curiosity Year 5 - 10	Oakmont Theatre P1	Amanda Larkin Amos Rogers	7T + 39PS + 48SC	6
Ethically safe Gen AI for Content Creation with Adobe Express Adobe Education Year 5 - 10	Computer Lab P4	Dr Tim Kitchen	4T + 25SC	**FULL**
Building Buzz Bloom: Centre for Youth Innovation Year 4 - 10	P16	Maree Whiteley Thomas Lenette	6T + 55PS + 11SC	3

Workshop Rotation Three: 1.40pm – 2.20pm (40 min)

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
Building Global AI Literacy: Preparing Teachers for the Future of AI-Driven Classrooms Day of AI Australia	D2	Jess Xu Maryam Saqib	12T	3
Creating Impactful STEM Programs with a Digital Technologies Approach Australian Computer Society	D8	Catherine Newington	11T	4
From Curiosity to Classroom Innovation with VR VRTY.io	Computer Lab G2	Hayden Brown	6T	9
Digi-Design Mini-Workshops	**Room**	**Presenting**	**Attending**	**Extra Space**
Mission to Mars Gilmore College Year 7 - 10	D1	German Panopio + 11 students	1T + 25SC	**FULL**
Emergency response: Drone missions in flood zones Al-Ameen College Year 4 - 6	D3	Marwa El-Ayashy + 4 students	4T + 16PS	**FULL**
Game On! Coding Creativity with MakeCode Arcade Elle Burgess and Kate Lockhart Year 5 - 8	D5	Elle Burgess Kate Lockhart	4T + 18PS + 8SC	**FULL**
Discovering the Secrets of Light Einstein First Year 6 - 8	D7	Anastasia Lonshakova	2T + 12PS + 6SC	**FULL**
Rescue Drone Challenge: Code & Calculate Peter Carnley Anglican Community School Year 5 - 8	J12	Cristi Jonas	4T + 8PS + 13SC	**FULL**
DNA Extraction The Australian STEM Project Year 4 - 10	J14	Lilijana Nicholls Joshoa Zilani	2T + 13PS + 15SC	**FULL**
Orbital Lab Perth Observatory Year 5 - 9	B3	Jenny Gull Joanne Ludlow	2T + 15PS + 15SC	**FULL**
Coding Curiosity with Micro:bit South West Regional PEAC Year 4 - 7	B4	Marlene Blackwood Natalie Kidd + 4 students	17PS + 4SC	**FULL**
The AI ate my homework! Cultivating Curiosity Year 4 - 7	Oakmont Theatre P1	Amanda Larkin Amos Rogers	2T + 36PS + 4SC	18
Minecraft Eco Detectives Perth Zoo Year 4 - 7	Computer Lab P4	Joselyn Juraszek	3T + 28PS	**FULL**
Dark Skies Bloom: Centre for Youth Innovation Year 7 - 10	P16	Maree Whiteley Thomas Lenette	2T + 5PS + 34SC	**FULL**

STEM Expo	KSC	Presenting	Attending	Extra Space
STEM in the Navy Submarine Recruiting Year 7 - 10	KSC	Trent Duncan Marlie van Heerden Stuart Mayor	16T + 77PS + 52SC	5
Melting Metal Mementos Assumption College Warwick QLD Year 7 - 10		Mark Baker		
MagLev Technology WeBuild Year 4 - 10		Laura Loughnan Kay Zin Jeremy Sean		
STEM Outreach Program (AusEarthEd) Australian Earth Science Education Year 7 - 10		Hannah Moore Jo Watkins		
The Martian Garden ARC Centre of Excellence for Plants for Space Year 4 - 10		April Harris Adil Khan Elliott Fourie		
Drones to the rescue! Al-Ameen College Year 4 - 10		2 students		
IXL Maths Leaderboard Competition IXL Learning Year 4 - 10		Paul Ralli		
Exploring STEAM with micro:bits Curtin University Year 6 - 9		Tamra Kidner Aleesha Davis Lexie Wallace		
Using Machine Learning to solve real-world challenges Perth College Year 5 - 9		Jesse Ussi + 7 students		
VR Stellar Safari: Journey to the Cosmic Frontier Perth Observatory Year 4 – 10		Matt Woods Mike Erith		
Use It Up! STEAM Mystery Ingredient Challenge OzHarvest Australia Year 5 - 8		Eva Clarey		
Drones – shaping the future South Metropolitan TAFE Year 4 – 10		Barry Hutton		
SailLAB – Australian Sailing STEM Education Australian Sailing Year 5 - 9		Jessica Lundh Kate Henderson		
CME DigiTech Automation Challenge The Chamber of Minerals & Energy of WA Year 4 - 9		Mirela Ionascu Asta Morton		
Travelling Back in Time with WA Organic and Isotope Geochemistry Centre WA Organic and Isotope Geochemistry Centre–Curtin Uni Year 4 – 10		Lisa Smith + 1 TBC		
STEM in Mining – How Environmental Scientists make a difference Hancock Iron Ore Year 6 – 10		Venicia de San Miguel Ben Fosbery Stacey Cook Jana Peatling Ben Charnley		
STEM in Mining - How Engineers Make a Difference! Hancock Iron Ore Year 6 – 10		Calvin Wang Andrew Prior Karl Davies		
Showcasing VR curriculum projects (TBC) School of Isolated and Distance Education – Laverton RRTT Year 6 – 10		2 teachers + 4 students		
Discover and Do: Maths Made Meaningful CSER and University of Adelaide – Maths in Schools Project Year 4 - 8		Dr John West		