

The Knox School Thursday 23<sup>rd</sup> October 2025

### Room of your workshop 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) – 3 teachers still to allocate

Teacher Mini-Master Classes	Room	Presenter	Attending	Extra Space
<b>AI and our Purpose: Shifting Practice to Meet the Real World</b> The Knox School	Computer Lab IC4	Isaac Rule	11	4
<b>STEM for Wildlife Conservation</b> Zoos Victoria	Auditorium Backstage	Kimberley Clayton Chris Vella	6	9
<b>Maths Made Meaningful</b> University of Adelaide – Maths in Schools Project	Upper Senior School Classroom 203	Celia Coffa Toni Falusi	8	7
Digi-Design Mini-Workshops	Room	Presenter	Attending	Extra Space
<b>Amplifying Student Storytelling: Podcasting in Action</b> The Knox School Year 6 - 10	Robert Read Learning Centre FlexiSpace	Liana Gooch + X students	2T + 9PS + 10SC	FULL
<b>Quantum measurements using light</b> University of Melbourne, EEE Year 7 - 10	AR1	Daniel Fan Dr. Shiva Balendhran	2T + 2PS + 15SC	1
<b>Build and Code a robot in under 40 minutes</b> Edminds Year 4 - 6	AR2	Samitha Embuldeniya Gayan Mudalige	2T + 22PS	FULL
<b>Spark the Wind Mini-Windmill Rescue</b> Britannica Education Year 4 - 7	AR3	Zeina Chalich	3T + 27PS	FULL
<b>Coding with Dash Robots</b> Flinders Christian Community College Year 4 - 7	MR2	Brooke Dornan Matt Smith + 3 students	2T + 18PS + 2SC	FULL
<b>Railway Signalling with Puffing Billy</b> Puffing Billy Railway Year 5 - 7	MR6	Peta Howard Annalise Van Der Hulst	2T + 22PS	FULL
<b>Zooming Bottle Rockets!</b> Monash High Powered Rocketry Year 4 - 7	Year 7 Classroom 501	Benjamin Hendriks Shudhho Sourajit Roy Faiza Karim Harrison Keighley Ibrahim Saneeh Ali Shanilka Gamage	2T + 24PS + 2SC	FULL

<b>TSAL: Technology Sparks Active Learning</b> Monash Motorsport Year 7 - 10	Year 7 Classroom 502	Jennifer Rottana Ethan Dharmawardena John Zhang Josh Valastro Lachie Sealie Yeheni Perera	3T + 7PS + 13SC	2
<b>Detecting the Unseen: Dark Matter</b> ARC Centre of Excellence for Dark Matter Particle Physics Year 7 - 10	Year 7 Classroom 503	Jackie Bondell + TBC	7PS + 17SC	FULL
<b>Button it Up – Safety by Design</b> Rangeview Intermediate School, NZ Year 4 - 8	Year 7 Classroom 504	Kim Adams	19PS + 4SC	2
<b>Make Science a Fashion Statement</b> Oh Pluto Year 6 - 10	Upper Senior School Science Lab 2L1	Louise van der Werff Kylie Hall	3T + 22PS + 2SC	FULL
<b>Hands-On Hydrology</b> EngEd Teaching Solutions Year 5 - 10	Upper Senior School Science Lab 2L2	Andrew Cameron	2T + 14PS + 8SC	6
<b>STEAM Expo</b>	Auditorium Foyer		Attending	Extra Space
<b>Mystery Ingredient Challenge: Oz Harvest Waste Warriors Edition</b> OzHarvest Australia Year 5 - 8	Auditorium Foyer	Lucy Bowtell Jenni Lewis	10T + 46PS + 37SC Total = 93	7
<b>MagLev Technology</b> WeBuild Year 4 - 10		Laura Loughnan Amanda Zampogna Inass Chedid		
<b>The Martian Garden</b> ARC Centre of Excellence for Plants for Space Year 4 – 10		Frazer Thorpe + TBA		
<b>IXL Maths Leaderboard Competition</b> IXL Learning Year 4 - 10		Kelvin Finger		
<b>FIRST Robotics Competitions (FLL Challenge, FTC and FRC)</b> AI Cubed Academy Year 4 - 10		Charlie Cheng Dion Stojavljevic		
<b>Engineering in Action!</b> Robogals Melbourne Year 4 - 10		Laranya Pawar Calum Hapugasdeniya Evie (Yifei) Cao Lilliana Carroll Elizabeth Pham Anuki Pathinayake		
<b>Inspired by Nature: Discovering design secrets from the natural world</b> Royal Botanic Gardens Victoria Year 4 - 10		Sally-Anne Fierenzi Amanda Knights Carolyn Shurey		
<b>STEMpal: You can't be who you can't see!</b> Curiosity Factory Year 4 - 8		Julia Baumann Jennifer A Payne		
<b>Discover and Do: Maths Made Meaningful</b> CSER and University of Adelaide – Maths in Schools Project Year 4 - 8		Celia Coffa Toni Falusi		
<b>Multimedia Microscopy</b> Cranbourne West Primary School Year 4 - 8		Thomas Brennan + 9 students		
<b>Inspire Robotics: Shaping Future Innovators</b> Inspire Robotics Year 4 - 10		Ellen Burgess Benjamin Grant Shannen Wedding Anabella Montalvao		

<b>Light Explorers!</b> Britannica Education Year 4 - 6		Michelle Kueh Jeremy Lim		
<b>Fly, Build, Design!</b> Bentley Systems Year 7 - 10		Engteck Soon ShunNai Zhao		
<b>Discover Electronics with Kids Unlimited!</b> Kids Unlimited Year 4 - 5		Holly Ervine Lauren Bencina Michael Clarke		
<b>Creating a more immersive STEM environment</b> BenQ Australia Year 4 - 10		Andrew Williams Simon Gordon		
<b>STEMPower – from concept to reality</b> Orchard Grove Primary School Year 4 - 6		Matt Anthony Elizabeth Pemberton + 10 students		
<b>Putting the Tech in Agritech</b> The Brainary Year 4 - 10		Sam Kingsley		

## Workshop Rotation Two: 11am – 12.20pm (80 min) – 3 teachers still to allocate

Teacher Only PD Stream	Room	Presenting	Attending	Extra Space
<b>Teacher Networking (11 – 11.40am)</b> <b>STEM Pathways session (11.40 – 12.20pm)</b>	Front of Auditorium	Adrian Bertolini	7	8
<b>Adobe Creative Educator Level 1 micro-credential course</b> Adobe Education	Upper Senior School Classroom 203	Tim Kitchen	10	5
<b>Innovation in STEM Education – Made in Sweden</b> KTH Royal Institute of Technology, Sweden	MR2	Eva Hartell	8	7
Problem Solvers	Room	Presenting	Attending	Extra Space
<b>Moonbase – Designing to Survive and Thrive</b> ARC Centre of Excellence for Plants for Space Year 4 - 10	Robert Read Learning Centre FlexiSpace	Frazer Thorpe + TBA	4T + 32PS + 12SC	FULL
<b>Become a disease detective- solve an outbreak!</b> Rladies-Melbourne Year 7 - 10	Computer Lab IC4	Dionne Argyropoulos Kathleen Zeglinski Felicia Bongiovanni Kirsty McCann	2T + 22SC	FULL
<b>Tinker Tales</b> Wonder Bitz Year 4 - 6	Auditorium Backstage	Darcy Moore	1T + 24PS	FULL
<b>STEM for Wildlife Conservation</b> Zoos Victoria Year 5 - 10	AR1	Kimberley Clayton Chris Vella	3T + 22PS + 10SC	FULL
<b>Designed by Nature: Innovating with Biomimicry</b> Royal Botanic Gardens Victoria Year 4 - 10	AR2	Sally-Anne Fierenzi Amanda Knights Carolyn Shurey	4T + 21PS + 5SC	FULL
<b>F1 Engineers &amp; the Future of EVs</b> Inspire Robotics Year 5 - 8	AR3	Ellen Burgess Benjamin Grant Shannen Wedding Anabella Montalvao	2T + 14PS + 15SC	FULL
<b>Fun Problem Solving with Lego Robots</b> AI Cubed Academy Year 5 - 7	MR6	Charlie Cheng Dion Stojavljevic	5T + 30PS + 2SC	FULL

<b>Learn to Design Games: Mechanics, Dynamics, Aesthetics</b> Monash University Year 7 - 10	Year 7 Classroom 501	Phoebe Toups Dugas	3T + 5PS + 16SC	1
<b>Invention Remix: Tools for an Unknown Future</b> Victorian Academy of Teaching and Leadership Year 4 - 8	Year 7 Classroom 502	Michael Kollaras Emma Perrett	2T + 21PS	2
<b>Sustainable Spaces</b> Monash Tech School Year 5 - 9	Year 7 Classroom 503	Brice Grosberg Ziru Guo	3T + 18PS + 2SC	2
<b>Game on! Using table top games to plan and design video games</b> Australian STEM Video Game Challenge Year 4 - 10	Year 7 Classroom 504	Belinda Rhee	2T + 23PS	<b>FULL</b>
<b>Design for reuse – egg drop challenge</b> University of Melbourne Year 6 - 10	Upper Senior School Science Lab 2L1	Jillian Kenny Melissa Kozul	1T + 22PS + 17SC	<b>FULL</b>
<b>From Code to Control: Exploring Automation with Raspberry Pi</b> The University of Melbourne Year 7 - 10	Upper Senior School Science Lab 2L2	Matheus Xavier Sivacarendran Balendhran	3T + 14SC	8
<b>Design Solutions via LEGO and App Prototyping</b> Doncaster Secondary College Year 4 - 10	Upper Senior School Multipurpose area MPA1	Kai Hong (Tony) Leung	3T + 19PS + 2SC	1

### Workshop Rotation Three: 1.40pm – 2.20pm (40 min) – 4 teachers to allocate

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
<b>Developing Future Ready Metacognitive Learners</b> Intuyu Consulting Pty Ltd	Auditorium Backstage	Adrian Bertolini	6	9
<b>Using Design Thinking to Help Students Partner with Real World Organisations</b> Doncaster Secondary College	Upper Senior School Classroom 203	Kai Hong (Tony) Leung	8	7
<b>Inspire &amp; Apply: Turning STEM Activities into Scientific Learning</b> Inspire Robotics	AR1	Ellen Burgess	8	7
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
<b>Rockin with robots!</b> Robogals Melbourne Year 4 - 8	Robert Read Learning Centre FlexiSpace	Lilliana Carroll Wenjie Zheng Anuki Pathinayake	4T + 22PS + 4SC	<b>FULL</b>
<b>You are our next CyberHero!</b> La Trobe University – School of Computing, Engineering and Mathematical Sciences Year 7 - 10	Computer Lab IC4	Mohammad Chowdhury Mary George Leanne Ngo	1T + 2PS + 20SC	<b>FULL</b>
<b>Build and Code a robot in under 40 minutes</b> Edmunds Year 4 - 6	AR2	Samitha Embuldeniya Gayan MUDALIGE	2T + 18PS	<b>FULL</b>
<b>Spark the Wind Mini-Windmill Rescue</b> Britannica Education Year 4 - 7	AR3	Zeina Chalich	2T + 25PS + 2SC	<b>FULL</b>
<b>Pippi Problem-solver!</b> KTH Royal Institute of Technology, Sweden Year 4 - 6	MR2	Eva Hartell	1T + 18PS	<b>FULL</b>

<b>Railway Signalling with Puffing Billy</b> Puffing Billy Railway Year 5 - 7	MR6	Peta Howard Annalise Van Der Hulst	1T + 17PS	6
<b>Zooming Bottle Rockets!</b> Monash High Powered Rocketry Year 4 - 7	Year 7 Classroom 501	Benjamin Hendriks Shudhho Sourajit Roy Faiza Karim Harrison Keighley Ibrahim Saneeh Ali Shanilka Gamage	1T + 22PS + 5SC	FULL
<b>TSAL: Technology Sparks Active Learning</b> Monash Motorsport Year 7 - 10	Year 7 Classroom 502	Jennifer Rottana Ethan Dharmawardena Josh Valastro Lachie Sealie Yeheni Perera	2T + 22SC	1
<b>Build your own Mini-BB Rovers!</b> Monash Nova Rover Year 5 - 10	Year 7 Classroom 503	Ayonna Saha Tran Thi Bao Phan (Tessa) Larissa Carbery Tashvi Vig	3T + 12PS + 9SC	FULL
<b>Conductivity with Makey Makey</b> St Peter Julian Eyemard PS Year 4 - 6	Year 7 Classroom 504	Louise Barbatello + 7 students	2T + 22PS	FULL
<b>Make Science a Fashion Statement</b> Oh Pluto Year 7 - 10	Upper Senior School Science Lab 2L1	Louise van der Werff Kylie Hall	3T + 2PS + 24SC	FULL
<b>Hands-On Hydrology</b> EngEd Teaching Solutions Year 5 - 10	Upper Senior School Science Lab 2L2	Andrew Cameron	4T + 12PS + 13SC	FULL
<b>STEAM Expo</b>	Auditorium Foyer	Presenting	Attending	Extra Space
<b>Mystery Ingredient Challenge: Oz Harvest Waste Warriors Edition</b> OzHarvest Australia Year 5 - 8	Auditorium Foyer	Lucy Bowtell Jenni Lewis	11T + 64PS + 16SC Total = 91	9
<b>MagLev Technology</b> WeBuild Year 4 - 10		Laura Loughnan Amanda Zampogna Inass Chedid		
<b>The Martian Garden</b> ARC Centre of Excellence for Plants for Space Year 4 - 10		Frazer Thorpe + TBA		
<b>IXL Maths Leaderboard Competition</b> IXL Learning Year 4 - 10		Kelvin Finger		
<b>FIRST Robotics Competitions (FLL Challenge, FTC and FRC)</b> AI Cubed Academy Year 4 - 10		Charlie Cheng Dion Stojasavljevic		
<b>Engineering in Action!</b> Robogals Melbourne Year 4 - 10		Laranya Pawar Calum Hapugasdeniya Evie (Yifei) Cao		
<b>STEMpal: You can't be who you can't see!</b> Curiosity Factory Year 4 - 8		Julia Baumann Jennifer A Payne		
<b>Discover and Do: Maths Made Meaningful</b> CSER and University of Adelaide – Maths in Schools Project Year 4 - 8		Celia Coffa Toni Falusi		
<b>Multimedia Microscopy</b> Cranbourne West Primary School Year 4 - 8		David Sarah + 9 students		

<b>Inspire Robotics: Shaping Future Innovators</b> Inspire Robotics Year 4 - 10		Benjamin Grant Shannen Wedding Anabella Montalvao		
<b>Light Explorers!</b> Britannica Education Year 4 - 6		Michelle Kueh Jeremy Lim		
<b>Fly, Build, Design!</b> Bentley Systems Year 7 - 10		Engteck Soon ShunNai Zhao		
<b>Discover Electronics with Kids Unlimited!</b> Kids Unlimited Year 4 - 5		Holly Ervine Lauren Bencina Michael Clarke		
<b>Creating a more immersive STEM environment</b> BenQ Australia Year 4 - 10		Andrew Williams Simon Gordon		
<b>Cartesian Divers</b> Eltham Primary School Year 4 - 7		Anglea White + students		
<b>Blast Off to the Virtual Universe!</b> OzGrav (ARC Centre of Excellence for Gravitational Wave Discovery) Year 4 - 10		Jackie Bondell + TBC		
<b>Putting the Tech in Agritech</b> The Brainary Year 4 - 10		Sam Kingsley		

## Completing the Day: 2.25pm – 2.45pm (20 min)

- Attendee feedback & prizes
- Acknowledgements

### Presenter Information

- **STEM Expo presenters:** bring your own trestle cloths, power boards, and extension cords for your table(s)
- **Workshop presenters:** The Knox School will have HDMI cables available to connect to the TVs in each room. If you have a Macbook then bring your own dongle to connect to the HDMI cable.

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**Mobile phone for IT Support: 0447317425**