

**The Knox School, Wantirna South Thursday 24 October 2024**

## Workshop Room and Participant Numbers

### Notes:

- T = Teacher, PS = Primary School Student, SC = Secondary College Student. Also note for some schools we can't tell as they don't inform us so it is a guess.
- If you have Secondary students in a session that is mostly Primary focused they are Year 7 students
- If you have Primary students in a session that is mostly Secondary focused they are extension Primary students

### Workshop Rotation One: 9.40am – 10.20am (40 min) – 3T to distribute still

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
<b>Implementing a school(s) wide approach to design thinking using a Community of Practice</b> Oakleigh Education Plan Primary and Secondary	Art Room AR2	Jennifer Palisse Peter Hough	20T	5
<b>Immersion in Education</b> Mindflight7 Primary and Secondary	Art Room AR3	Kajal Pala Meeti Shah	6T	9
<b>Storming the Classroom: A student-led journey in creating a real-world solution</b> The Knox School Primary and Secondary	Year 7 Classroom 501	Marissa Thomas Carol Cartwright + 3 Year 9 students	10T	5
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
<b>CyberHero: Keep the cyber space safe</b> La Trobe University – School of Computing, Engineering and Mathematical Sciences Year 7 - 10	Computer Lab	Jabed Chowdhury Mary George	3T + 17SC (20)	4
<b>Lego and Design Thinking</b> Australian Council for Educational Research Year 4 - 10	Art Room AR1	Belinda Rhee	7T + 20PS (27)	FULL
<b>Coding with Dash Robots</b> Flinders Christian Community College Year 4 - 7	Auditorium Music Room MR6	Brooke Dornan Matthew Smith +4 students	4T + 14PS + 6SC (24)	FULL
<b>Railway Signalling with Puffing Billy</b> Puffing Billy Railway Year 5 - 7	Auditorium Gallery	Peta Howard	11PS + 3SC (Tyson) (14)	6
<b>Engineering design and drawing using Splat 3D</b> Tony Doyle Year 4 - 6	Year 7 Classroom 502	Tony Doyle	5T + 18PS + 1SC (24)	FULL
<b>LiveBinders</b> McKinnon Primary School Year 4 - 7	Year 7 Classroom 503	Julianne Power Diana Tuyau + 6 students	2T + 11PS (13)	7
<b>NASA spaghetti/marshmallow tower challenge</b> Deakin University Year 7 - 10	Year 7 Classroom 504	Rachael Martin Ehsan Motlagh Mariana Paulino Michael Pereira	1T + 2PS + 22SC (25)	FULL
<b>Designing For Community Connectedness</b> Akorn Education Year 5 - 10	Upper Senior School Classroom 203	Adam Oldmeadow	3T + 7PS + 7SC (17)	8

<b>Making Microbit Companions</b> Kilvington Grammar School Year 7 - 9	Upper Senior School Science Lab 2L1	Joanne Low Will Frantz	4T + 3PS + 5SC (12)	8
<b>Pixel Power-Up: Arcade Game Design!</b> Boneo Primary School Year 4 - 7	Upper Senior School Science Lab 2L2	Antonia Scandizzo Kieran Nolan	4T + 16PS + 1SC (21)	<b>FULL</b>
<b>Gears in motion!</b> STEMed Kits Year 5 - 7	Multipurpose area MPA1	Nash Naidoo Linga Naidoo	2T + 13PS + 4SC (19)	1
<b>STEAM Expo</b>	<b>Auditorium Foyer</b>		<b>Attending</b>	<b>Extra Space</b>
<b>Australian STEM Video Game Challenge</b> Australian Council for Educational Research Year 4 – 10		Lisa Van Beeck Sally Gridley	11T + 34PS + 23SC (68)	12
<b>The STEAM Journey at Puffing Billy</b> Puffing Billy Railway Year 4 - 6		Kim Dunstan		
<b>Get STEMed – Start with first principles thinking</b> STEMed Kits Year 4 - 9		Sara Naidoo		
<b>Drone Experience</b> Pakronics Year 4 – 10		Pathik Shah Anita Freitag		
<b>Data Analysis &amp; AI Technology</b> Elastik Year 4 - 10		Jarrold Main Damien Brooks		
<b>Inspired by Nature: Discovering design secrets from the natural world</b> Royal Botanic Gardens Victoria Year 4 - 10		Sally-Anne Fierenzi Amanda Knights Emma Melder		
<b>STEAM: From an acronym to real world thinking</b> MakerDojo Year 4 - 10		Jeremy Kalbstein Alon Manker		
<b>Class VR and Promethean Interactive Panels</b> EduNet Year 4 – 10		Kristian Liddiard Georgia Fennessy		
<b>The Martian Garden</b> ARC Centre of Excellence for Plants for Space Year 4 – 10		Fraser Thorpe		
<b>STEMpal: You can't be who you can't see!</b> Curiosity Factory Year 5 - 8		Viktoria Schram Julia Baumann		
<b>Indigenous Creativity</b> Creative Actions Year 5 - 10		Dr Tim Patston		
<b>Engineering in Action!</b> University of Melbourne Year 4 – 10		Charlotte Jones Alex Everett Natalie Smith Eva Yu Han Apurva Lekkala		
<b>Augmented Reality Live</b> Worley Year 7 – 10		Jessica Pascolo Isabelle Kua Caitlin Grant Khalid Abdurahman Jamila Alarkan		
<b>Unleash Your Sustainability Superpowers!</b> Academy for Enterprising Girls Year 4 – 10		Sally Wagnon Paige Ellis		
<b>Play and Learn with Qwestacon</b> Qwestacon Year 4 – 8		Melissa Gatt Kaleen Tison Povis		

<b>STEMPower – from concept to reality</b> Orchard Grove Primary School Year 4 - 6		Bec Bird Matt Anthony + 10 students rotating through and visiting other expos		
<b>Blast Off to the Virtual Universe!</b> OzGrav (ARC Centre of Excellence for Gravitational Wave Discovery) Year 4 - 10		Jackie Bondell Bailee Wolfe Christine Lee Olivia Vidal Velazquez Ashwathi Nair		
<b>Amba Press – all day promo</b>		Alicia Cohen		
<b>Deakin Uni – all day promo</b>		Robert Lovett Leanne Farago		

### Problem Solvers Session: 10.50am – 12.10pm (80 min) – 5T still to distribute

Teacher Only PD Stream	Room	Presenting	Attending	Extra Space
<b>Teacher Networking (10.50 – 11.30am)</b> <b>STEM Pathways session (11.30 – 12.10pm)</b> Facilitated by:	Pavilion, Auditorium Foyer	Adrian Bertolini	20T	5
<b>Reimagining STEM: Definitions and Disruptions</b> Siena College Primary and Lower Secondary	Year 7 Classroom 503	Roxanne Summer	10T	10
Problem Solvers	Room	Presenting	Attending	Extra Space
<b>Become a disease detective- solve an outbreak!</b> Rladies-Melbourne Year 7 - 10	Computer Lab	Dionne Argyropoulos Kathleen Zeglinski	19SC	5
<b>Game on! Using table top games to plan and design video games</b> Australian Council for Educational Research Year 4 - 10	Art Room AR1	Lisa Van Beeck Belinda Rhee	9T + 16PS + 5SC (30)	<b>FULL</b>
<b>STEM for Wildlife Conservation</b> Zoos Victoria Year 5 - 10	Art Room AR2	Nicole Cowan Francesca Lennie Kimberley Clayton	4T + 15PS + 10SC (29)	<b>FULL</b>
<b>What's the Solution to Plastic Pollution?</b> Cetacean Science Connections Year 4 - 10	Art Room AR3	Dr Sue Mason	5T + 11PS + 6SC (22)	3
<b>Creativity in Indigenous STEM</b> Creative Actions Year 5 - 10	Auditorium Music Room MR6	Dr Tim Patston	5T	5T
<b>Indigenous Inventors</b> The Maker Difference Year 4 - 6	Auditorium Gallery	Emily Ross Anne Harris Katelyn Rodwell	3T + 13PS (16)	4
<b>Mental Health and Wellbeing Youth Design Challenge</b> Young Change Agents Year 7 - 10	Auditorium Backstage	Janine Farah	2T + 3PS + 13SC (18)	2
<b>Designed by Nature: Innovating with Biomimicry</b> Royal Botanic Gardens Victoria Year 4 - 10	Year 7 Classroom 501	Sally-Anne Fierenzi Amanda Knights Emma Melder	7T + 18PS + 3SC (28)	<b>FULL</b>
<b>Lift off! Design your own satellite</b> Swinburne Youth Space Innovation Challenge Year 4 - 10	Year 7 Classroom 502	Nimas (Ni Putu Audita Placida Emas) Antonia Figueroa	7T + 15PS + 7SC (Tyson) (29)	<b>FULL</b>
<b>Artificial intelligence; Real Emotions: Chatbots</b> <b>Changing Mental Health</b> John Monash Science School Year 4 - 10	Year 7 Classroom 504	Penny Hale David Albrecht + 3 students	5T + 14PS + 9SC (28)	<b>FULL</b>

<b>Space Design: Humans on the Moon</b> Scienceworks/Museums Victoria Year 4 - 8	Upper Senior School Classroom 203	Sophie Oakes Anna Luhrmann	5T + 14PS + 4SC (23)	2
<b>Sustainable engineering in action</b> Worley Year 7 - 10	Upper Senior School Science Lab 2L1	Jessica Pascolo Isabelle Kua Caitlin Grant Khalid Abdurahman Jamila Alarkan	2T + 1PS + 13SC (16)	4
<b>Design for reuse – egg drop challenge</b> University of Melbourne Year 4 - 8	Upper Senior School Science Lab 2L2	Katja Holtta-Otto Jillian Kenny Melissa Kozul	3T + 22PS + 2SC (27)	<b>FULL</b>
<b>Moonbase – Designing to Survive and Thrive</b> ARC Centre of Excellence for Plants for Space Year 4 - 10	Multipurpose area MPA1	Fraser Thorpe	4T + 19PS + 5SC (28)	<b>FULL</b>

### Workshop Rotation Two: 1.45pm – 2.25pm (40 min) – 3T still to distribute

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
<b>First Steps to designing a well-planned STEM program</b> Intuyu Consulting Pty Ltd Primary	Auditorium Backstage	Dr Adrian Bertolini	8T	7
<b>Writemark: Marking writing in the blink of an AI</b> Elastik Primary and Secondary	Year 7 Classroom 501	Jarrod Main	5T	5
<b>Cyber Team Red</b> Questacon Upper Primary and Secondary	Year 7 Classroom 503	Melissa Gatt	15T	5
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
<b>Exploring the World of AI</b> STEM Incubators Year 4 - 6	Computer Lab	Sricharan Karthikeyan Rehaan Salil Aneka Subramanian Naishadha Thiyagarajan	5T + 19PS (24)	<b>FULL</b>
<b>Introduction to design thinking</b> Australian Council for Educational Research Year 6 - 8	Art Room AR1	Dharshani Chandrasekara	3T + 9PS (12)	8
<b>Microbit Cardboardtronics</b> Mazenod College Year 4 - 6	Art Room AR2	Pravin Vaz	8T + 13PS + 5SC (26)	<b>FULL</b>
<b>STEAM Power!</b> Mindflight7 Year 4 - 10	Art Room AR3	Kajal Pala Meeti Shah	4T + 24PS + 3SC (31)	<b>FULL</b>
<b>Coding with Dash Robots</b> Flinders Christian Community College Year 4 - 7	Auditorium Music Room MR6	Brooke Dornan +2 students	4T + 13PS + 1SC (18)	2
<b>Railway Signalling with Puffing Billy</b> Puffing Billy Railway Year 5 - 7	Auditorium Gallery	Peta Howard	1T + 3PS + 7SC (11)	9
<b>Engineering design and drawing using Splat 3D</b> Tony Doyle Year 4 - 6	Year 7 Classroom 502	Tony Doyle	4T + 7PS (11)	9
<b>NASA spaghetti/marshmallow tower challenge</b> Deakin University Year 7 - 10	Year 7 Classroom 504	Rachael Martin Ehsan Motlagh Mariana Paulino Michael Pereira	1T + 3PS + 8SC (12)	8
<b>Designing For Community Connectedness</b> Akorn Education Year 5 - 10	Upper Senior School Classroom 203	Adam Oldmeadow	1T + 4PS + 5SC (10)	10

<b>Detecting the Unseen: Dark Matter</b> ARC Centre of Excellence for Dark Matter Particle Physics Year 7 - 10	Upper Senior School Science Lab 2L1	Jackie Bondell Bailee Wolfe Olivia Vidal Velazquez Ashwathi Nair	3T + 10SC (13)	7
<b>An Introduction to the Arduino Magic</b> University of Melbourne Year 7 - 10	Upper Senior School Science Lab 2L2	Matheus Xavier Shiva Balendhran	4T + 5SC (9)	11
<b>Gears in motion!</b> STEMed Kits Year 5 – 7	Multipurpose area MPA1	Nash Naidoo Linga Naidoo	1T + 20PS (21)	4
<b>STEAM Expo</b>	<b>Auditorium Foyer</b>	<b>Presenting</b>	<b>Attending</b>	<b>Extra Space</b>
<b>Australian STEM Video Game Challenge</b> Australian Council for Educational Research Year 4 – 10		Lisa Van Beeck Belinda Rhee Sally Gridley	17T + 28PS + 30SC (Tyson) (75)	10
<b>The STEAM Journey at Puffing Billy</b> Puffing Billy Railway Year 4 - 6		Kim Dunstan		
<b>Get STEMed – Start with first principles thinking</b> STEMed Kits Year 4 - 9		Sara Naidoo		
<b>Drone Experience</b> Pakronics Year 4 – 10		Pathik Shah Anita Freitag		
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<b>Unleash Your Sustainability Superpowers!</b> Academy for Enterprising Girls Year 4 – 10		Sally Wagnon Paige Ellis		
<b>Play and Learn with Questacon</b> Questacon Year 4 – 8		Kaleen Tison Povis		
<b>Making with Makey Makey</b> Siena College Year 4 – 8		Roxanne Sumner + Nicholas Harvey + <b>11</b> students rotating and visit other expos		
<b>Immersive Virtual Reality Experience in Construction Training</b> La Trobe University – School of Computing, Engineering and Mathematical Sciences Year 7 – 10		Ali Rashidi Yee Sye Lee Dr Elsuida Kondo Zai Dashi Naw		
<b>An Electrifying Experience!</b> Cranbourne West Primary School Year 5 – 10		Thomas Brennan David Sarah <b>+ 9 students</b>		
<b>Amba Press – all day promo</b>		Alicia Cohen		
<b>Deakin Uni – all day promo</b>		Robert Lovett Leanne Farago		

## Completing the Day: 2.30pm – 2.45pm (20 min)

### Arrive from 7.45am

#### Parking and Drop Off Points – Enter via Burwood Highway.

- **All attendees, presenters and parental and bus drop offs to enter via Burwood Highway**
- **Parental and Large Bus Drop-offs** at the designated turning circle indicated (top right of map). They will need to then exit via the back gate of the school (Merryn Grove) not Burwood Highway. There will be guides to direct attendees towards the Auditorium area
- **Conference Parking for all attendees and presenters** on the Hockey Field – Attendee / Presenter Parking Area (see map)
  - Mini-buses up to 13 seaters can park on the Hockey Field. Larger buses need to drop off at the designated turning circle and park elsewhere if staying at the conference
  - People arriving to park in hockey pitch will need to **follow the directions** of the traffic management staff stationed there.
  - **EXPO presenters:** If you need to drop off materials for your Expo session - park near the Pavilion and bring your materials to the Auditorium Foyer to set up. THEN park your vehicle on the Hockey Field – Attendee / Presenter Parking Area (see map).
  - **All other presenters:** park vehicle on the Hockey Field – Attendee / Presenter Parking Area (see map) THEN make your way to the registration area outside the Resource Centre to sign-in.
  - **There is a disabled parking spot** next to the Pavilion for those with wheelchair access who need to be dropped off. **Drop off and then** park your vehicle on the Hockey Field – Attendee / Presenter Parking Area (see map).
- **At the end of the conference**
  - Large buses can pick up at the designated turning circle and exit via the back entrance to the school
  - All parked vehicles will need to follow the arrows marked on the road to leave the school (i.e. via the exit on the bottom right hand side of the map)

#### Sign-in first

- **All attendees and workshop and STEM Expo presenters:** Sign-in is at the registration area outside the Resource Centre. You must sign in and get your nametags and conference booklets before setting up.

- **STEM Expo and First Rotation Workshop presenters:** after signing in go and set up in the assigned rooms before returning for the conference opening and first keynote speaker in the Auditorium.
- All non-presenting attendees should enter the Auditorium for the start of the conference.
- If you are arriving later in the day to present then please make your way to Auditorium Foyer where there will be a presenter table with your name tags and conference booklet, etc.

### **Presenting 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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