

# It Takes a Spark!

## STEM Conference

Islamic College Brisbane, Karawatha  
Friday 20 June 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 Year 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
<b>Integrating Enterprise Skills in the Classroom</b> Academy for Enterprising Girls	Library Lab #1	Sally Wagnon	12T	3
<b>Introduction to the BBC Micro:bit</b> Damien Kee	Library Lab #2	Damien Kee	12T	3
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
<b>Cut Waste and FEAST Fabulously!</b> OzHarvest Australia and Scenic Shores State School Year 4 - 7	IIND	Madison Lucas Melanie Armstrong + 5 Scenic Shore stnts	3T + 11PS	6
<b>Mission to Mars</b> Stephen Broderick, St Ursula's College Toowoomba Year 6 - 9	IO19	Stephen Broderick	4PS + 7SC	4
<b>The Tower Triumph Challenge</b> Students from Islamic College of Brisbane Year 4 - 7	IC01	5 ICB SC students	4PS + 4SC	7
<b>Batteryless Wearable Health and Fitness Monitoring</b> CSIRO Year 7 - 10	IC07	Moid Sandhu	2T + 11SC	2
<b>Designing Safe Habitats to survive climate change</b> Students from Islamic College of Brisbane Year 4 - 7	IC08	4 ICB SC students	1T + 6PS + 3SC	5
<b>Street Science Energy and Electrical Circuits</b> Street Science Year 4 - 6	IC09	Alex Furey Sharon Palit	1T + 15PS + 1SC	3
<b>Hack the System: Cyber Defenders in Action</b> EdTech Group Year 7 - 10	IC10	Mirella Zulli	17SC	3
<b>Scribbly Gum STEAM</b> Megan Forward Year 4 - 6	Art Room	Megan Forward Dannika Patterson	2T + 9PS	4
STEAM Expo	MPC Back Area	Presenting	Attending	Extra Space
<b>Melting Metal Mementos</b> Assumption College Warwick Year 7 – 10		Mark Baker	7T + 26PS + 25SC	22
<b>Make the invisible visible</b> Centre for Microscopy and Microanalysis, The University of Queensland Year 5 - 8		Dr Rubbiya Ali Matthew Ng Prof. Roger Wepf Lily Whelehan		

<b>Curriculum aligned virtual reality</b> Learning & Design Hub, QLD Department of Education Year 7 - 10		Adrian Rayner Luke Christensen		
<b>Explore Electronics!</b> Integrated STEM Pty Ltd Year 4 - 10		Connor Harris		
<b>Mars AI Rover and AI SMART Home Demonstrations</b> STEM Punks Year 5 - 9		Elanna Diwell		
<b>Build your own habitat with Augmented Reality</b> Islamic College of Brisbane Year 4 - 10		Carmen Farnsworth		
<b>Insect Pest Management for Australian Cotton</b> Bayer Crop Science Year 4 - 10		Lindsay Harries Kristen Knight		
<b>MagLev Technology</b> Webuild Year 4 - 10		Amy Melvin Kelly Rechsteiner		
<b>Cyber Guardians: Crack the Code to Online Safety!</b> EdTech Group Year 4 - 10		Kosha Stevens		
<b>Epic Garden</b> Epic Card Games Year 4 - 6		Jade Catania		
<b>Street Science Slime Drop In</b> Street Science Year 4 - 6		Elise Banks		
<b>Future You – Where is the STEM in that?</b> Future You Australia Year 4 - 7		Becky Laurence		
<b>The Future of Transport Signalling</b> Cross River Rail Delivery Authority Year 4 - 10		Allyson Starky Brittania Clifford-Pugh		
<b>Transformational Technology</b> Queensland Computers Year 4 - 10		Abbott Haron Christian Baird Rike Browning Mark Honnibal		
<b>Black Holes and Gravitational Waves</b> OzGrav Year 7 - 10		Madeline Cross-Parkin +1		

### Problem Solvers Session: 11.00am – 12.20pm (80 min)

Problem Solvers	Room	Presenting	Attending	Extra Space
<b>AI-Powered Waste Classifier</b> Southern Cross University Year 6 - 10	Library Lab #1	Vinh Bui Reza Ghanbarzadeh	7SC	8
<b>Data to Action: Innovating Climate Solutions for a Safer Future</b> CSIRO Year 8 - 10	Library Lab #2	Zaidul Alam	2T + 7SC	6
<b>Captain's Primary Cut: The Fastest Ideas on the High Seas</b> Hewlett Packard Education Year 4 - 7	Library Lab #4	Brett Salakas	3T + 16PS	FULL
<b>Beating the Bee Bug</b> The Glennie School Year 5 - 9	IO20	Nicci Wheaton	9PS	6
<b>Sustainable Sparks: Dream, design, do for global goals impact</b> Young Change Agents Year 4 - 10	IC01	Mia Pinnington	2T + 12PS + 2SC	4

<b>DesignDash: Helmets – Necessary or a Nuisance?</b> Brisbane South State Secondary College Year 5 - 9	IC03	Daniel Nichol	1T + 8PS + 4SC	2
<b>Creating a healthy food future</b> Griffith University Year 6 - 10	IC04	Lindsay Brown	1T + 8SC	6
<b>The Power of Design Thinking</b> The University of Queensland Year 8 - 10	IC06	Kellie King Jacqui Niblett Erica Chou	4T + 5SC	6
<b>Is someone out there?</b> Griffith University Year 4 - 10	IC07	Tammie Ward- Hawkins Kym Fry Trent Davis	3T + 15SC	FULL
<b>Becoming a Game Designer and Entrepreneur</b> Epic Card Games Year 4 - 7	IC08	Jade Catania	10PS + 6SC	FULL
<b>Code Red: Design a Flood-Rescue Drone Prototype</b> Beenleigh State High School Year 5 - 9	IC10	Elizabeth Stewart Helen Turner + 7 students	1T + 5PS + 9SC	FULL
<b>Automating Australian Agriculture</b> Queensland Computers Year 5 - 8	IC11	Sandy Gardner Abbott Haron	1T + 7PS + 4SC	3
<b>Being Real World Problem Solvers with Citizen Science</b> Australian Citizen Science Association Year 6 - 9	Art Room	Michelle Neil	10SC	5
<b>Alternate Teacher PD Stream</b>	Room	Presenting	Attending	Extra Space
<b>Sustainability Innovation Challenge</b> STEM Punks	IC02	Elanna Diwell	10T	6
<b>Creating Impactful STEM Programs with a Digital Technologies Approach</b> Australian Computer Society	IC05	Catherine Newington	9T	6

## Workshop Rotation Two: 1.40pm – 2.20pm (40 min)

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
<b>Arduino in AgTech</b> IntegratedSTEM	Library Lab #1	Cameron Ritchie	7T	8
<b>Sustainopreneurship - Entrepreneurship and innovation for sustainability</b> Young Change Agents	IC01	Mia Pinnington	5T	10
<b>Hands-on Science, Made Simple</b> Street Science	IC04	Tasmin Proost Brook Anderson	6T	9
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
<b>Virtual pet</b> Damien Kee Year 5 - 8	Library Lab #2	Damien Kee	1T + 14PS + 2SC	FULL
<b>Hidden Wonders: Science Under the Microscope</b> Ormiston State School Year 4 - 6	IO19	Wardah Jakupovic Raline Nielson	2T + 17PS	FULL
<b>Mathematics, Geometry and Tessellations</b> Islamic College of Brisbane Year 6 - 9	Art Room	Melanie Parry	3T + 3PS + 4SC	5
<b>Autonomous Vehicles Challenge</b> STEM Punks Year 5 - 10	IC02	Chris Buswell	5PS + 19SC	FULL
<b>Pathology in Practice</b> Museum Curator, The University of Queensland Year 7 - 10	IC03	Rebecca Lush	1T + 19SC	FULL

<b>Moving and Grooving with Granny: Creating digital solutions to help our elderly exercise</b> Australian Computer Society Year 4 - 6	IC05	Catherine Newington	2T + 3PS	10
<b>Can we actually defy Gravity?</b> Students from Islamic College of Brisbane Year 7 - 10	IC08	2 ICB Students	8SC	7
<b>Street Science Energy and Electrical Circuits</b> Street Science Year 4 - 6	IC09	Alex Furey Sharon Palit	4T + 15PS	<b>FULL</b>
<b>Cyber Sleuths: Stay Safe, Play Smart!</b> EdTech Group Year 4 - 6	IC10	Mirella Zulli	2T + 12PS	1
<b>STEAM Expo</b>	<b>MPC Back Area</b>	<b>Presenting</b>	<b>Attending</b>	<b>Extra Space</b>
<b>Melting Metal Mementos</b> Assumption College Warwick Year 7 – 10		Mark Baker	6T + 16PS + 16SC	32
<b>Make the invisible visible</b> Centre for Microscopy and Microanalysis, The University of Queensland Year 5 - 8		Dr Rubbiya Ali Matthew Ng Prof. Roger Wepf +1		
<b>Curriculum aligned virtual reality</b> Learning & Design Hub, QLD Department of Education Year 7 - 10		Adrian Rayner Luke Christensen		
<b>Mars AI Rover and AI SMART Home Demonstrations</b> STEM Punks Year 5 - 9		Elanna Diwell		
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<b>Future You – Where is the STEM in that?</b> Future You Australia Year 4 - 7		Becky Laurence		
<b>The Future of Transport Signalling</b> Cross River Rail Delivery Authority Year 4 - 10		Allyson Starky Brittania Clifford-Pugh		
<b>Transformational Technology</b> Queensland Computers		Abbott Haron Christian Baird Rike Browning Mark Honnibal		
<b>Unleash Your Sustainability Superpowers!</b> Academy for Enterprising Girls Year 4 - 10		Sally Wagnon		
<b>Solar Activity: Sunspots, Prominences and Filaments</b> St Ursula's College Toowoomba Year 4 - 10		Stephen Broderick		