

Frederick Irwin Anglican School Thursday 24 September 2026

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 – 10.25am (45 min)

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
Cosmic Crops: Plant Prototyping for Space ARC Centre of Excellence in Plants for Space Primary and Secondary	KSC1	Jordan Witchard	4T	11
Pedagogical structures to equip students to be "Future Ready" South Thornlie Primary and Southern River College Secondary	KSC2	John Townley Larissa Waghorn	11T	4
Making STEM simple and special Grandis Primary School Primary	D8	Chris Lambe	11T	4
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
Sunspots and the Spectrum of Light Perth Observatory Year 4 - 6	D1	Joanne Ludlow Jennifer Gull	3T + 25PS	FULL
The Finch Spark! Frederick Irwin PS Year 4 - 6	D2	Natalie Boyd Tamara Smith	2T + 22PS	FULL
The Ore-some Challenge Hancock Iron Ore Year 8 - 10	D3	Calvin Wang Matt Hamilton Liv Tingey-Graham Sarah Kirke Lucy McGrath	1T + 23SC	FULL
Big Bang Cosmology Einstein First, The University of Western Australia Year 7 – 10	D5	Anastasia Lonshakova Raju Bhattarai	2T + 21SC	FULL
From Fast Fashion to Fantastic Bags: Design for Sustainability Peter Carnley Anglican Community School Year 4 - 10	D7	Vanessa Krollig Bev Wild 5 Yr 7 students	1T + 1PS + 18SC	FULL
AI Lift-Off: Make a Model WA Data Science Innovation Hub Year 4 - 6	Computer Room G2	Beth Cusack Alex Jenkins Miguel Pereira	2T + 24PS	FULL
Scitech's Foley Challenge: Soundtrack the Scene Scitech Discovery Centre Year 7 - 10	Oakmont Theatre P1	Joshua Guy	1T + 26SC	FULL
Can AI Teach You a Language? Young Engineers Australia WA Year 4 – 10 (ensure another teacher in the room)	Computer Room P4	Arsen Ilhan	1T + 13PS + 10SC	FULL
Mission to Mars - Secondary Gilmore College Year 7 - 10	7.1 – 7.2	German Panopio Kexin (Kasey) Du 9 SC Presenting	1T + 24SC	FULL

Engineering and Communications Challenge Scitech Discovery Centre Year 5 - 6	7.3	Isaac Dawe	3T + 21PS	FULL
Little Farms, Big Ideas: A Seed to a Harvest Students from Northam SHS Year 6 – 8	7.4	Adrienne Waters 4 SC Presenting	2T + 14PS + 8SC	FULL
Designing safe and inclusive urban spaces Institute of Public Works Engineering Australasia – WA Year 7 – 10 (ensure another teacher in the room)	7.5 – 7.6	Cathy Higgs Aaron MacNish Renier De Beer Mashallah Love	1T + 21SC	3
CSI Spark: Forensic science Tangerine STEM Year 4 - 8	B3 Science Lab	Rachael Hughes Edward Hehre	4T + 27PS	FULL
Capillary action - Plants know how to do it! South Metro TAFE Year 7 - 10	B4 Science Lab	Monika Sostaric	2T + 25SC	3
Young Inventors: Designing Smart Home Solutions with Micro:bit Students from Leda Primary School Year 4 – 6	B7 Science Lab	Lisa Thomson Mairi Millson 10 PS students	2T + 29PS	FULL

STEM Expo	KSC	Presenting	Attending	Extra Space
Mars AI Rover and AI SMART Home Demonstrations STEM Punks Year 5 - 9	KSC	Michael Holmstrom Chee Wong	12T + 49PS + 43SC	16
VR Stellar Safari: Experience the Universe! Perth Observatory Year 4 – 6		Carly Imrie Joshua Ludlow		
Throw, Track, Triumph: Exploring Chance with Micro:bit Motion Data CSER STEM, Adelaide University Year 4 – 8		John West		
STEM Marine and Racing STEM WA Year 4 - 10		Rod Brown Adrian Cuvolo + 2 RAN ppl		
Ask, Explore, Grow: Plants for Space ARC Centre of Excellence in Plants for Space, UWA Year 4 - 10		April Harris Willow Benson		
Robots to the rescue: How robots assist during a chemical spill Al-Ameen College Year 4 - 10		3 SC students		
Bora Beetle Detective Agency Perth College Year 5 - 8		Jesse Ussi 7 SC students		
Smartphones and You School of Psychological Science, UWA Year 7 - 10		Elijah Boylen Nicholas Badcock Donna Bayliss		
Melting Metal Mementos Assumption College Warwick QLD Year 7 - 10		Mark Baker		
Local to Global: Exploring our Environment Murdoch University Environmental Science Association Year 4 - 6		Piper Smith Chloe Battersby Adam Lewis Kieran Silvie		
STEM in the Navy Submarine Recruiting Year 7 - 10		Peta Wurfel Stuart Mayor		
Explore, Question and Discover with Scitech Scitech Discovery Centre Year 4 – 10		Evan Thyer		
Be Digitally Future Ready! South Metropolitan TAFE Year 7 - 10		Peter Owen		
Being future ready with STEM Careers South Metropolitan TAFE Year 4 – 10		Emma Maclaren		
Girls+ in Engineering Girls+ in Engineering, UWA Year 7 - 10		Aditi Arun Navya Saini Ella Richards Rashmi Pasqual		
The Alcoa Exploration Lab Alcoa Year 4 – 10		Shani Higginbotham Antonio Morais Hannah Hill Eliose Dixon Lawrie Henrickson Mariano Iannuzzi Tayla Hall Leon Chin		
Becoming future ready with VEX Robotics! Amaroo Primary School Year 4 – 7		Nicole Ambrose 5 PS students		

Becoming a Force Detective School of Engineering, Edith Cowan University Year 4 – 10		Daizee Wiles Ashley Tate Ruan Boshoff Joshua Pronk		
AI Creation Station AI Skills Hub Year 4 – 10		Chi Yue Lau Jacob Popal Rohith Ramesh		
Drones Take Flight! Technologies for Youth Academy Year 4 – 10		Ng Poh Geok Shum Chin Fai Yu Ka Chun		
Using STEM to feed the world and restore the environment Centre for Engineering Innovation: Agriculture & Ecological Restoration, UWA Year 4 – 10		Andrew Guzzomi Stuart Watt Ruby Wiese Karla Ivkovic		
Maqueen Robotics Challenge Mount Barker Community College Year 4 – 9		Jade Maiolo 2 SC Students		
Engineering in Action Murdoch University Year 4 – 10		Andrew Schembri Amy Henderson		
Polymer Engineering - Let it Snow! Engineers Australia Year 4 – 10		Karen Coleman Nataleigh Davies		
STEM @ FIAS Frederick Irwin Anglican School Year 4 – 10		Werner Nagel		
The Art of Catapults Curtin Mechanical Society Year 4 – 10		Adam Hafiz Hejia Li James Kong Nafis Malik Daniel Felix De Jesus		

Rotation Two - Problem Solvers Session: 11.05am – 12.15pm (70 min)

Teacher PD Stream	Room	Presenting	Attending	Extra Space
AI Lift-Off: Teaching AI skills in the classroom WA Data Science Innovation Hub Secondary	KSC1	Beth Cusack Alex Jenkins	12T	3
Sustainability Innovation Challenge STEM Punks		Michael Holmstrom	9T	6
How to integrate Big Bang Cosmology and the Maths Behind It from Year 8 Einstein First, The University of Western Australia Secondary	D5	Anastasia Lonshakova Raju Bhattarai	4T	6
Problem Solvers	Room	Presenting	Attending	Extra Space
Autonomous Vehicles Challenge STEM Punks Year 5 – 10	KSC2	Michael Holmstrom	6T + 17PS + 10SC	FULL
The STEM Energy Game Woodside Energy Ltd Year 7 - 10	D1	Kathryn Laurentis Myuran Pathmanathan Sarah Henbury Jayden Cooke	3T + 30SC	FULL
Where the wind blows! Engineers Without Borders – Curtin Chapter Year 4 - 8	D2	Isobel Cubong Adelie Soekinto Tony Liang Manav Vignesh Reyansh Chouhan	2T + 11PS + 17SC	FULL
Bees, Drones and the Future of Food Al-Ameen College Year 4 - 6	D3	Marwa El-Ayashy 8 SC Students	5T + 26PS	FULL
Sculpting Solutions South Metro Primary Extension and Challenge Year 4 - 8	D7	Sheryl Miller Emily Spicer	1T + 13PS + 12SC	FULL
Solving real-world industry challenges The Chamber of Minerals & Energy of WA Year 4 - 10	D8	Shane Landers	2T + 12PS + 16SC	FULL
AI Vibe Coding: Build a Game with ChatGPT South Metropolitan TAFE Year 7 - 10	Computer Room G2	Peter Owen	3T + 26SC	FULL
Wind to Water Students from Northam SHS Year 4 - 6	J12	Adrienne Waters 4 SC Students	1T + 18PS	FULL
Alcoa Sky Scouts: Drones for Forest Rehabilitation Alcoa Year 7 - 10	Oakmont Theatre P1	Simon McCaskie Ryenne McLennan Dave Timlin	3T + 37SC	FULL
Virtual and Augmented Reality Dale Christian School Year 4 - 8	Computer Room P4	Lindsay Hall	5T + 26PS	FULL
Exploring the Moon with Australia's Rover - Rover Victorian Space Science Education Centre Year 7 - 10	7.1 – 7.2	Mark Gleeson Danielle Shean	2T + 33SC	FULL
Using Lego to Prototype & Test a new Bridge E ² Young Engineers Australia Year 4 - 8	7.3	Chee Wong	5T + 26T + 7SC	FULL
Design a Plant for a Moon Garden ARC Centre of Excellence for Plants for Space, UWA Year 7 - 10	7.4	April Harris Willow Benson Jordan Witchard	1T + 22SC	FULL
The Dragster Challenge: Solving the Traction Problem Robogals Perth Year 4 - 5	7.5 – 7.6	Layla van Staden Divyank Sharma	3T + 27PS	FULL
VEX IQ – Tallest Tower VEX Robotics	B3 Science Lab	Adam Ozols Lucien Bianchi	5T + 22PS + 13SC	FULL

Year 4 - 8				
Where Does CO₂ Go? Exploring Climate Change and Carbon Capture CSIRO Year 4 - 8	B4 Science Lab	Jessica White	5T + 26PS	FULL
Hairy Sand School of Engineering, Edith Cowan University Year 4 - 10	B7 Science Lab	Daizee Wiles Ashley Tate Ruan Boshoff Joshua Pronk	3T + 17PS + 14SC	FULL

Workshop Rotation Three: 1.35pm – 2.20pm (45 min)

Teacher Mini-Master Classes	Room	Presenting	Attending	Extra Space
Teacher Networking – from Spark to Solution Intuyu Consulting		Adrian Bertolini	0	0
Exploring the Moon with Australia's Rover - Rover Victorian Space Science Education Centre Secondary	KSC2	Mark Gleeson Danielle Shean	4T	6
How to create authentic real-world projects for students Gwynne Park Primary School Primary	B4 Science Lab	Kylie Lyon 5 PS Students	14T	6
Digi-Design Mini-Workshops	Room	Presenting	Attending	Extra Space
Sunspots and the Spectrum of Light Perth Observatory Year 4 - 6	D1	Joanne Ludlow Jennifer Gull	2T + 23PS	3
Exploring Animal Adaptations - the STEM Way Greenfields Primary School Year 4 – 6	D2	Yasmin Karim-Bell Paul Gallash 6 PS students	4T + 17PS	FULL
The Ore-some Challenge Hancock Iron Ore Year 8 - 10	D3	Calvin Wang Matt Hamilton Liv Tingey-Graham Sarah Kirke Lucy McGrath	2T + 19SC	4
Big Bang Cosmology Einstein First, The University of Western Australia Year 7 – 10	D5	Anastasia Lonshakova Raju Bhattarai	2T + 23SC	FULL
Moving from FIRST Lego League to FIRST Tech Challenge Peter Carnley Anglican Community School Year 7 - 10	D7	Beverley Wild Vanessa Krollig 3 SC students	3T + 14SC	3
The Science of Bubbles Grandis Primary School Year 4 - 6	D8	Chris Lambe	1T + 24PS	FULL
AI Lift-Off: Code an AI WA Data Science Innovation Hub Year 7 - 10	Computer Room G2	Beth Cusack Alex Jenkins Miguel Pereira	1T + 20SC	5
Sky High STEM Mini-Workshop: Hands-On Drone Flight Challenge Technology for Youth Academy Year 4 – 10	Oakmont Theatre P1	Chi Yue Lau Ng Poh Geok	2T + 14PS + 5SC	FULL
Digital Escape Room Peter Carnley Anglican Community School Year 4 – 7	Computer Room P4	Louise Wissmann Natalie Richardson 8 PS presenting	1T + 20PS + 4SC	FULL
Mission to Mars - Primary Gilmore College Year 4 - 6	7.1 – 7.2	German Panopio Kexin (Kasey) Du 9 SC Presenting	3T + 27PS	FULL
Engineering and Communications Challenge Scitech Discovery Centre Year 5 - 6	7.3	Isaac Dawe	3T + 21PS	FULL
Grid Grand Prix Students from Northam SHS	7.4	Adrianne Water 6 SC students	2T + 24SC	FULL

Year 7 - 10				
Designing safe and inclusive urban spaces Institute of Public Works Engineering Australasia – WA Year 7 - 10	7.5 – 7.6	Cathy Higgs Aaron MacNish Renier De Beer Mashallah Love	3T + 22SC	FULL
CSI Spark: Forensic science Tangerine STEM Year 4 - 8	B3 Science Lab	Rachael Hughes Edward Hehre	2T + 12PS + 17SC	FULL
Managing a modern farm through STEM Centre for Engineering Innovation: Agriculture & Ecological Restoration, UWA Year 7 - 10	B7 Science Lab	Andrew Guzzomi Stuart Watt	1T + 28SC	FULL
STEM Expo	KSC	Presenting	Attending	Extra Space
Mars AI Rover and AI SMART Home Demonstrations STEM Punks Year 5 - 9	KSC	Michael Holmstrom Gwyneth De Guia	17T + 66PS + 39SC	3
VR Stellar Safari: Experience the Universe! Perth Observatory Year 4 – 6		Carly Imrie Joshua Ludlow		
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		Rashmi Pasqual		
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