

Science is Primary Program: Get Connected Stay connected, Friday May 5 Tingalpa State School

	Registration / trade stalls / coffee van		
9:00-9:40	Keynote address: Paula Taylor Assistant Director of the Academy of Future Skills, Canberra		
9:40-10:40	Session 1		
Presentation	Early years Paper Helicopter design	Feelin' hot, hot, hot: Developing a School Heat Resilience Plan through STEAM inquiry-based learning	Waterbug Wisdom
Presenter/s	Alwyn Powell PhD	Michele Pikunic (STEM Teacher) Dr Harry Kansa (Griffith University)	Megan Traynor Environmental Education Coordinator, Natura Pacific
Outline of session	Using STEM integration extend the primary connections year 2 helicopter activity with a challenge make the new helicopter design to land upright.	This presentation will report on a collaboration between government departments, universities and schools with the goal of co-creating a School Heat Resilience plan in a primary school setting through STEAM inquiry-based learning. Sharing a teacher toolkit of resources and teaching strategies implemented during the project.	Dive into the wonderful world of water bugs! This workshop will be a 'hands-on' opportunity to explore a variety of topics including features, basic needs, food chains and more. We will use field ecology survey techniques to understand the importance of water bugs as environmental indicators and how we can improve the health of our waterways
10:40-11:00	Morning Tea		

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11:00-11:50		Session 2		
Presentation	Connecting the strands in Science: How to plan, connecting SU, SHE and SI.	Authentic Integrated STEM Units	Science inquiry in the learning pit	Waterbug Wisdom
Presenter/s	Cath Menzler QCAA Principal Project Officer, Australian Curriculum	Paula Taylor Assistant Director of the Academy of Future Skills	Dr Dana Burfeind, Science specialist teacher Wellers Hill State School and Dr Christine Devine, Senior Lecturer Academy for Medical Education The University of Queensland	Alecia De Piazza Environmental Education Coordinator, Natura Pacific
Outline of session	<p>An interactive workshop allowing teachers to plan using all of the Science strands. Teachers will leave with confidence to develop year plans using the Australian Curriculum v9.0.</p> <p>Participants who choose this session will continue to session 3</p>	<p>This session will explore 3 very popular STEM units (across various primary year levels) that have been developed for ACT public schools. The Academy of Future Skills supports ACT public school teachers through planning and writing units and modelling how to teach them through an inquiry lens using the dispositions of a scientist. We will explore how a single unit of work can be written to be multi-disciplinary so that it is curriculum aligned, engaging and hands-on. As with all our programs, focusses on teaching scientific concepts using mathematical evidence and reasoning within an authentic context.</p>	<p>In this workshop we will provide participants with an authentic experience in the Learning Pit (Challenge Learning Model, James Nottingham). We will do inquiry-based hand on activities that will give teachers an opportunity to have first-hand experience at open ended inquiry, 'failure', being uncomfortable with not knowing the answer, and ultimately, satisfaction in problem solving to find a way out of the Learning Pit. After this workshop, we want participants to be more confident with their science inquiry and moving away from 'cook book' practical activities.</p>	<p>Dive into the wonderful world of water bugs! This workshop will be a 'hands-on' opportunity to explore a variety of topics including features, basic needs, food chains and more. We will use field ecology survey techniques to understand the importance of water bugs as environmental indicators and how we can improve the health of our waterways</p>
Transition				

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12:00-12:50	Session 3 – continuation of session 2 or swap to new session		
Presentation	Connecting the strands in Science: How to plan, connecting SU, SHE and SI.	Authentic Integrated STEM Units	Science inquiry in the learning pit
Presenter/s	Cath Menzler QCAA Principal Project Officer, Australian Curriculum	Paula Taylor Assistant Director of the Academy of Future Skills	Dr Dana Burfeind, Science specialist teacher Wellers Hill State School and Dr Christine Devine, Senior Lecturer Academy for Medical Education The University of Queensland
Outline of session	Continuation of presentation	This session will explore 3 very popular STEM units (across various primary year levels) that have been developed for ACT public schools. The Academy of Future Skills supports ACT public school teachers through planning and writing units and modelling how to teach them through an inquiry lens using the dispositions of a scientist. We will explore how a single unit of work can be written to be multi-disciplinary so that it is curriculum aligned, engaging and hands-on. As with all our programs, we ensure that it focusses on teaching scientific concepts using mathematically evidence and reasoning within an authentic context.	In this workshop we will provide participants with an authentic experience in the Learning Pit (Challenge Learning Model, James Nottingham). We will do inquiry-based hand on activities that will give teachers an opportunity to have first-hand experience at open ended inquiry, 'failure', being uncomfortable with not knowing the answer, and ultimately, satisfaction in problem solving to find a way out of the Learning Pit. After this workshop, we want participants to be more confident with their science inquiry and moving away from
13:00-14:00	Lunch		

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14:15- 16:00	<p style="text-align: center;">Session 4</p> <p style="text-align: center;">Own travel arrangements to: Moreton Bay Environmental Centre 162 Stradbroke Avenue, Wynnum</p>
<p>OPTION 1: 2.15- 4.00pm</p>	<p>Presentation: <u>Mangroves and the Environment</u> Meet at William Gunn Jetty, Manly</p> <p>On-board Inspiration. Presenters: Tim Roe, Experienced Senior Teacher and Doherty Award Recipient, Moreton Bay EEC.</p> <p>Outline of session: A hands-on interactive session allowing teachers to appreciate the importance of adopting a role (Junior Ecologist) when investigating in the field. Teachers will investigate the significance of the mangrove forests along the Wynnum Manly foreshore with topics covered including sequencing of key stages in the lifecycle of crabs and this relationship to mangroves; investigating the interdependence of living things for survival; and the role healthy waterways play in maintaining ecosystem health.</p>
<p>OPTION 2: 2.15- 4.00pm</p>	<p>Presentation: <u>Minibeasts in your backyard</u> Moreton Bay Environmental Education Centre (EEC)</p> <p>Presenters: Dianne Aylward, Principal Moreton Bay EEC and Gaby Faull, Teacher Moreton Bay EEC.</p> <p>Outline of session: Creep into the Minibeast world. This session will explore school garden and pond design supporting engagement with preps - year 1's to become Junior Entomologists. During this session you will be investigating various habitats within our centre discovering insects to examine external features, using identification charts and gaining an understanding of the importance of respecting all living things. First Nations plant signage with common name, scientific name and First Nation name, along with traditional uses, provides the perfect platform for engaging with the Prep and Year 1 science curriculum.</p>