

WORKSHOPS / Tuesday 27th February

4.30 - 4.45 pm	WELCOME							
	ESSENTIALS		GENERAL			METHODS		
4.45 - 5.15 pm	1.1 2023 Essentials Exam Discussion <i>Joanna Avetisian</i> M207 & 208		1.2 Matrices, Excel and Zombies-Oh My! (Participants need to bring a laptop) <i>Kate Sheppard</i> M205	1.3 Different ways of using formative assessment in your Year 12 General Mathematics classroom <i>Jarrad McPhee</i> M203 (FULL)	1.4 How I plan to teach Stage 2 General the third time around <i>Ryan Barber</i> M201		1.5 2023 Methods Exam Discussion <i>Timothy Bond & Dan Winter</i> Middle School LECTURE THEATRE	
5.15 – 5.45 pm	2.1 M207 & 208		2.2 How I plan to teach Stage 2 General the third time around <i>Ryan Barber</i> M201	2.3 Matrices, Excel and Zombies-Oh My! (Participants need to bring a laptop) <i>Kate Sheppard</i> M205	2.4 Different ways of using formative assessment in your Year 12 General Mathematics classroom <i>Jarrad McPhee</i> M203 (FULL)		2.5 Middle School LECTURE THEATRE	
5.45 – 6.15 pm	3.1 Community Connections as an option <i>Ana Marques Britto & Anna Beinke</i> M210	3.2 Why not teach Discrete Models as Optional topic <i>George Damis</i> M211	3.3 <i>Navigating Assessment in a World of AI</i> <i>Rebecca Garrett & Kylie Lester</i> M209 (FULL)	3.4 Designing and Guiding Quality Folio Investigations Discussion <i>Sarah Campbell</i> M201 (FULL)	3.5 Matrices, Excel and Zombies-Oh My! (Participants need to bring a laptop) <i>Kate Sheppard</i> M205	3.6 Teaching Stage 2 Methods regarding pedagogy, curriculum & assessment. <i>Nick Cooper</i> M207	3.7 Gold Standard CI Responses <i>Timothy Edwards</i> M208	3.8 Mathematical Methods Pedagogy, capabilities and learner profiles in Maths <i>Carmen Cibi</i> M203

6.15 pm	Light meal provided							
6.45 – 7.15 pm	4.1 Navigating Assessment in a World of AI <i>Rebecca Garrett & Kylie Lester</i> M209	4.2 Addressing Wellbeing and Mathematics Anxiety at Stage 2 <i>Darryle Phillips</i> M210		4.3 2023 General Exam Discussion <i>Natasha Smith & Ewen Graham</i> Middle School LECTURE THEATRE		4.4 All there is to know about using a CG50 in a Methods exam? Part 1 <i>Alastair Lupton</i> M201	4.5 The Final Sprint. Setting up students for exam success in the last few weeks. <i>Tim Budenberg</i> M203	4.6 Discussion of an engaging and challenging investigation into Multiple Dose Surge Models <i>Nick Cooper & Andrew McFarlane</i> M207
7.15 – 7.45 pm	5.1 Wellbeing in Senior Mathematics <i>Darryle Phillips</i> M210	5.2 Why not teach Discrete Models as Optional topic <i>George Damis</i> M211		5.3 Middle School LECTURE THEATRE		5.4 All there is to know about using a CG50 in a Methods exam? Part 2 <i>Alastair Lupton</i> M201	5.5 Conjecture questions for Maths Methods <i>John Leydon</i> M205 (FULL)	5.6 Navigating Assessment in a World of AI <i>Rebecca Garrett & Kylie Lester</i> M209
7.45 pm	Conclusion of Evening							

WORKSHOPS / Thursday 29th February

4.30 – 4.45 pm	WELCOME Lecture Theatre Carmen to speak for 5min			
	Specialist		Methods	
4.45 – 5.15 pm	6.1 2023 Specialist Exam Discussion <i>Valerie Frost, Deb Woodard-Knight & Denis Orell</i> Middle School LECTURE THEATRE		6.2 All there is to know about using a CG50 in a Methods Exam? Part 1 <i>Alastair Lupton</i> M201	6.3 Conjecture questions for Maths Methods <i>John Leydon</i> M203
5.15 – 5.45 pm	7.1 Middle School LECTURE THEATRE		7.2 All there is to know about using a CG50 in a Methods exam? Part 2 <i>Alastair Lupton</i> M201	7.3 Wellbeing in Senior Mathematics <i>Darryle Phillips</i> M205
5.45 – 6.15 pm	8.1 Discussion on the topics 3D parametric curves, Distance between skew lines approach and factorising polynomials. <i>Valerie Frost, Deb Woodard-Knight</i> M201 (FULL)	8.2 Making Connections <i>Kim Thomas</i> M209	8.3 Using Exam Practice Questions to Revise all Year <i>Belinda Willcocks</i> M203 (FULL)	8.4 Using AI to better understand sampling <i>Timothy Edwards</i> M205
6.15	Light meal provided			
6.45 – 7.15 pm	9.1 Tennis with a Twist <i>Constantin Naum</i> M203	9.2 Discussion on the topics 3D parametric curves, Distance between skew lines approach and factorising polynomials. <i>Valerie Frost, Deb Woodard-Knight</i> M201	9.3 2023 Methods Exam Discussion <i>Timothy Bond & Dan Winter</i> Middle School LECTURE THEATRE	

7.15 – 7.45 pm	10.1 Making Connections <i>Kim Thomas</i> M209	10.2 Tennis with a Twist <i>Constantin Naum</i> M203	10.3 Middle School LECTURE THEATRE	
7.45 pm	Conclusion of Evening			

Year 12 Conference | ABSTRACTS

Session 1 Tuesday 4.45pm - 5:15pm

E 1.1 [Joanna Avetisian](#) | **2023 Essentials Exam Discussion Part 1**

G 1.2 [Kate Sheppard](#) | **Matrices, Excel and Zombies-Oh My!**

This workshop will introduce a task designed for Modelling with Matrices in the context of the Zombie Apocalypse. Excel will be used in place of a Graphing Calculator to complete calculations. **(Participants will need a laptop with Excel or Sheets)**

G 1.3 [Jarrad Mc Phee](#) | **Different ways of using formative assessment in your Year 12 General Mathematics classroom**

As a mathematics teacher, giving students timely feedback is important. In this session, I will go through different ways of how I give formative assessment to my general mathematics students. This session can be applied all subjects, not just General Mathematics; however, it will focus on General Mathematics. **(Workshop is now full)**

G 1.4 [Ryan Barber](#) | **How I plan to teach Stage 2 General the third time around**

After teaching Stage 2 General twice as an early career teacher, I've been able to see what worked well for me and what needed changing. This reflection and presentation have been put together to hopefully help other early career teachers manage their time effectively when teaching SACE Maths subjects.

M 1.5 [Timothy Bond & Dan Winter](#) | **2023 Methods Exam Discussion Part 1**

Session 2 Tuesday 5:15pm - 5:45pm

E 2.1 [Joanna Avetisian](#) | **2023 Essentials Exam Discussion Part 2**

G 2.2 [Ryan Barber](#) | How I plan to teach Stage 2 General the third time around (R)

After teaching Stage 2 General twice as an early career teacher, I've been able to see what worked well for me and what needed changing. This reflection and presentation have been put together to hopefully help other early career teachers manage their time effectively when teaching SACE Maths subjects.

G 2.3 [Kate Sheppard](#) | [Matrices, Excel and Zombies-Oh My!](#) (R)

This workshop will introduce a task designed for Modelling with Matrices in the context of the Zombie Apocalypse. Excel will be used in place of a Graphing Calculator to complete calculations. **(Participants will need a laptop with Excel or Sheets)**

G 2.4 [Jarrad McPhee](#) | Different ways of using formative assessment in your Year 12 General Mathematics classroom (R)

As a mathematics teacher, giving students timely feedback is important. In this session, I will go through different ways of how I give formative assessment to my general mathematics students. This session can be applied all subjects, not just General Mathematics; however, it will focus on General Mathematics. **(Workshop is now full)**

M 2.5 [Timothy Bond & Dan Winter](#) | **2022 Methods Exam Discussion Part 2**

Session 3 Tuesday 5:45pm - 6:15pm

E 3.1 [Ana Marques Britto & Anna Beinke](#) | [Community Connections as an option](#)

Community Connections brings with it unique challenges for both students and teachers. School and classroom contexts can vary widely but Ana and Anna are here to give you some hot tips and tricks to help you navigate this subject to give your students the best chance of success.

E 3.2 [George Damis](#) | [Why not teach Discrete Models as Optional topic](#)

Introduce and describe the General Maths topic of Discrete Models as an optional topic for Essential Maths, instead of Rates and Ratios. (Non-calculator topic)

G 3.3 Rebecca Garrett & Kylie Lester | Navigating Assessment in a World of AI

This workshop will provide attendees with the opportunity to share their experiences with AI in the classroom. Kylie and Rebecca will discuss the ethics around the use of AI, share tips for task design, demonstrate examples of ways to use AI tools to plan and create resources, and share methods to be transparent with students about their use of AI tools in assessment. If you have resources to share, we encourage you to bring them along. **(Workshop is now full)**

G 3.4 Sarah Campbell | Designing and Guiding Quality Folio Investigations Discussion

Tips on designing quality folio investigations and how to ensure students can achieve to an A+ level. Tips on how to advise students on designing, writing and presenting quality investigations. **(Workshop is now full)**

G 3.5 Kate Sheppard | Matrices, Excel and Zombies-Oh My! (R)

This workshop will introduce a task designed for Modelling with Matrices in the context of the Zombie Apocalypse. Excel will be used in place of a Graphing Calculator to complete calculations. **(Participants will need a laptop with Excel or Sheets)**

M 3.6 Nick Cooper | Teaching Stage 2 Methods regarding pedagogy, curriculum and assessment

Presentation, followed by an open discussion, on teaching stage 2 mathematical methods regarding curriculum, pedagogy, and assessment. Key resources and links will be presented and discussed including course planners, SAT questions and folios.

M 3.7 Timothy Edwards | Gold Standard CI Responses

A guide to structuring confidence interval responses that will guarantee student understanding and improve assessment responses.

M 3.8 Carmen Cibi | Mathematical Methods Pedagogy, capabilities and learner profiles in Maths

What is learner's profile and how we use capabilities in our classrooms with maximum impact for students and minimum interference in our daily class routine. Using activities that develops student metacognition and promote critical thinking.

Session 4 Tuesday 6:45pm - 7:15pm

E 4.1 Rebecca Garrett & Kylie Lester | Navigating Assessment in a World of AI (R)

This workshop will provide attendees with the opportunity to share their experiences with AI in the classroom. Kylie and Rebecca will discuss the ethics around the use of AI, share tips for task design, demonstrate examples of ways to use AI tools to plan and create resources, and share methods to be transparent with students about their use of AI tools in assessment. If you have resources to share, we encourage you to bring them along.

E 4.2 Darryle Phillips | Addressing Wellbeing and Mathematics Anxiety at Stage 2

Looking at some practical interventions around identifying Mathematics Anxiety and supporting students to find success. Come prepared to join the conversation and interact with your colleagues.

G 4.3 Natasha Smith & Ewen Graham | 2023 General Exam Discussion

M 4.4 Alastair Lupton | All there is to know about using a CG50 in a Methods exam? Part 1

Is it possible to know 'all there is to know' about using a Casio CG50AU graphics calculator in SACE Mathematical Methods examinations? In an attempt to answer this question, participants will be taken on a walk-through of relevant apps (Run-Matrix, Graph, Statistics, Distribution and Equation), looking at a range of commonly and less commonly used functionality. Time permitting, we will also look at some freely available online resources to further support good e-tech use in Methods.

M 4.5 Tim Budenberg | The Final Sprint. Setting up students for exam success in the last few weeks.

Discussion with strategies for students to retain the best results in the examination.

M 4.6 Nick Cooper & Andrew McFarlane | Discussion of an engaging and challenging investigation into Multiple Dose Surge Models

This session involves the presentation of an investigation into Multiple Dose Surge Models that can be used for stage 2 mathematical methods. This investigation is a quality task that engages and challenges the students and has a focus on using technology. Having run our latest iteration of the task in 2023, we would like to share it with other teachers and students so they can experience the richness of this task. The session will run through the investigation components and discuss tips and tricks for its use in your stage 2 methods class.

Session 5 Tuesday 7:15pm - 7:45pm

E 5.1 Darryle Phillips | Addressing Wellbeing and Mathematics Anxiety at Stage 2 (R)

Looking at some practical interventions around identifying Mathematics Anxiety and supporting students to find success. Come prepared to join the conversation and interact with your colleagues.

E 5.2 George Damis | Why not teach Discrete Models as Optional topic (R)

Introduce and describe the General Maths topic of Discrete Models as an optional topic for Essential Maths, instead of Rates and Ratios. (Non-calculator topic)

G 5.3 Natasha Smith & Ewen Graham | 2023 General Exam Discussion Part 2

M 5.4 Alastair Lupton | All there is to know about using a CG50 in a Methods exam? Part 2

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M 5.5 John Leydon | Conjecture questions for Maths Methods

Questions who ask students to make and prove a conjecture have been around for some time. However, not all conjecture questions allow the same access to the performance standards. What makes it a good conjecture question? **(Workshop is now full)**

M 5.6 Rebecca Garrett & Kylie Lester | Navigating Assessment in a World of AI (R)

This workshop will provide attendees with the opportunity to share their experiences with AI in the classroom. Kylie and Rebecca will discuss the ethics around the use of AI, share tips for task design, demonstrate examples of ways to use AI tools to plan and create resources, and share methods to be transparent with students about their use of AI tools in assessment. If you have resources to share, we encourage you to bring them along.

Session 6 Thursday 4:45pm - 5:15pm

S 6.1 Valerie Frost, Deb Woodard-Knight & Denis Orell | 2023 Specialist Exam Discussion Part 1

M 6.2 Alastair Lupton | All there is to know about using a CG50 in a Methods exam? Part 1

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Session 7 Thursday 5:15pm - 5:45 pm

S 7.1 Valerie Frost, Deb Woodard-Knight & Denis Orell | 2023 Specialist Exam Discussion Part 2

M 7.2 Alastair Lupton | All there is to know about using a CG50 in a Methods exam? Part 2

Is it possible to know 'all there is to know' about using a Casio CG50AU graphics calculator in SACE Mathematical Methods examinations? In an attempt to answer this question, participants will be taken on a walk-through of relevant apps (Run-Matrix, Graph, Statistics, Distribution and Equation), looking at a range of commonly and less commonly used functionality. Time permitting, we will also look at some freely available online resources to further support good e-tech use in Methods.

M 7.3 Darryle Phillips | Addressing Wellbeing and Mathematics Anxiety at Stage 2

Looking at some practical interventions around identifying Mathematics Anxiety and supporting students to find success. Come prepared to join the conversation and interact with your colleagues.

Session 8 Thursday 5:45pm - 6:15pm

S 8.1 Valerie Frost & Deb Woodard-Knight | Discussion on the topics 3D parametric curves, Distance between skew lines approach and factorising polynomials.

Very informative workshop with 2 very experienced Teachers. **(Workshop is now full)**

S 8.2 Kim Thomas | Making Connections

Students quite often find it challenging to make connections between graphical and algebraic representations. In this workshop we will explore different ways in which we can support students to link their algebraic results with graphical representations. Areas of focus will include solving systems of equations and interpreting the results graphically, extending the triangle inequality and reciprocal and rational functions.

M 8.3 Belinda Willcocks | Using Exam Practice Questions to Revise all Year

Suitable for Stage 2 General, Methods and Specialist. Exam Practice Questions give students an opportunity to keep fresh their knowledge, and also to practice the format and the conditions of an exam all year, so they go into Term 4 revision more confident. This workshop looks at why Exam Practice Questions are a good idea and how you may like to run them in your classes. Of course, free resources of some questions and advice on how you can create your own questions beats the theoretical, pedagogical know-how every time! **(Workshop is now full)**

M 8.4 Timothy Edwards | [Using AI to better understand sampling](#)

A workshop exploring the use of AI to enhance statistical understanding of sampling distributions. Ideas for student enquiry as well as applications for assessment writing. Participants are encouraged to bring a device to use during the workshop.

Session 9 Thursday 6:45pm - 7:15pm

S 9.1 Constantin Naum | [Tennis with a Twist](#)

This is a Year 12 Specialist Mathematics Folio task that involves vector calculus. The investigation extends to 3D and it uses a variety of concepts taught at Year 12 Specialist Mathematics.

S 9.2 Valerie Frost & Deb Woodard-Knight | [Discussion on the topics 3D parametric curves, Distance between skew lines approach and factorising polynomials. \(R\)](#)

Very informative workshop with 2 very experienced Teachers.

M 9.3 Timothy Bond & Dan Winter | [2023 Methods Exam Discussion Part 1](#)

Session 10 Thursday 7:15pm - 7:45pm

S 10.1 Kim Thomas | [Making Connections \(R\)](#)

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S 10.2 Constantin Naum | [Tennis with a Twist \(R\)](#)

This is a Year 12 Specialist Mathematics Folio task that involves vector calculus. The investigation extends to 3D and it uses a variety of concepts taught at Year 12 Specialist Mathematics.

M 10.3 Timothy Bond & Dan Winter | [2023 Methods Exam Discussion Part 2](#)