

# HOLIDAY PROGRAM



## JANUARY HOLIDAY WORKSHOPS 2025

WED 22ND - FRI 24TH  
TUE 28TH - WED 29TH



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## Why Choose Our Holiday Workshops?

- **Teach the Most Essential Topics First:** Our workshops focus on the most critical and challenging topics your child will encounter in the upcoming school year. By mastering these during the holidays, your child will start the term in **revision mode** rather than **learning mode**, giving them a significant head start and reducing academic stress.
- **Tailored Programs:** Workshops designed to match your child's specific needs, with durations ranging from **2 to 3 hours** for optimal focus and learning.
- **Experienced Tutors:** Led by highly skilled educators passionate about helping students succeed.
- **Exclusive Free Help Day:** Enroll in **2 or more workshops** and get access to our **Free Help Day on Wednesday, 29th January (9am - 1pm)**. Drop in for personalized support, review workshop materials, or ask questions about any math topic—all included at no extra cost!
- **Flexibility and Savings:** Choose from 1,2,or 3 workshops with significant savings for multi-day enrollments.

## Exclusive Free Help Day

- **WHEN:** Wednesday, 29th January, 9.00am - 1.00pm
- **WHO:** Available *exclusively* to students enrolled in **3 workshops**.
- **WHAT:** Drop in for personalised assistance, extra practice, or help with any math-related topic. Our expert tutors will be on hand to provide support and guidance to ensure students feel fully prepared for the year ahead. Students attending will also gain access to an exclusive workshop, offering additional insights and advanced tips to help them excel further.

## Pricing

Category	Workshop Duration	1 Workshop	2 Workshops	3 Workshops
Stage 1-2 (K-Y4)	2 hours	\$150	N/A	N/A
Stage 3 (Y5-Y6)	2 hours	\$160	\$300 (\$20 off)	N/A
Stage 4 (Y7-Y8)	2 hours	\$170	\$320 (\$20 off)	\$450 (\$60 off)
Stage 5 (Y9-Y10)	2.5 hours	\$225	\$420 (\$30 off)	\$580 (\$95 off)
Stage 6 (Y11-Y12)	3 hours	\$285	\$520 (\$50 off)	\$750 (\$105 off)

## Workshop Schedule

### Stage 2

January 28, 2025 (Tuesday)

9.00am - 11.00am

Mastering Number Skills	Problem Solving and Reasoning (incl Word Problems)
This workshop focuses on essential number concepts, including addition, subtraction, multiplication, and division, as well as working with place value and number patterns. Designed to build confidence and fluency, this session helps younger students strengthen their foundational skills.	This workshop dives deeper into advanced number skills, such as fractions, decimals, and percentages, alongside problem-solving strategies. It ensures students have a solid understanding of key concepts needed for a smooth transition to high school maths.

### Stage 3

January 24, 2025 (Friday)

11.00am - 1.00pm

January 28, 2025 (Tuesday)

11.00am - 1.00pm

Mastering Number Skills	Problem Solving and Reasoning
This workshop helps students develop critical problem-solving and reasoning skills by tackling real-world word problems. Students will learn to break down complex problems into manageable steps, enhancing their confidence and ability to apply maths concepts in everyday situations.	This session builds on foundational problem-solving skills, challenging students with <u>multi-step word problems</u> that require logical reasoning and critical thinking. It's perfect for preparing students to tackle more complex maths concepts with confidence.

### Year 7

January 22, 2025 (Wednesday)

9.00am - 11.00am

January 23, 2025 (Thursday)

11.00am - 1.00pm

January 23, 2025 (Thursday)

11.00am - 1.00pm

Whole Number	Fractions and Decimals	Intro to Algebra
Often the first topic students encounter in high school, this workshop covers key number skills such as types of numbers, divisibility rules, factors, multiples, order of operations, and negative integers. It's perfect for ensuring a confident and smooth start to Year 7 maths.	This workshop explores 'part of a number', and together with Whole Numbers, forms the foundation of essential "Number" concepts in high school maths. Mastering fractions is critical, as they appear in nearly every topic. Students will learn to understand, visualize, and compute with fractions, ensuring a strong start and long-term success in maths.	This workshop introduces students to the basics of algebra, helping them transition smoothly from arithmetic to algebraic thinking. Students will learn to work with variables, expressions, and simple equations, setting a strong foundation for advanced topics in high school maths.

### Year 8

January 22, 2025 (Wednesday) <i>11.00am - 1.00pm</i>	January 23, 2025 (Thursday) <i>11.00am - 1.00pm</i>	January 24, 2025 (Friday) <i>11.00am - 1.00pm</i>
Algebra	Equations (Applied Algebra)	Mastering Measurement
Algebra is the foundation of mathematics and essential for success in all topics. This workshop strengthens core techniques, fills any gaps from Year 7, and builds a versatile toolkit for problem-solving. With questions designed to support understanding and challenge advanced learners, there's something for every student.	This workshop, the second part of the Algebra series, focuses on solving equations and applying these techniques across various math topics, such as Linear Relationships, Measurement, and Geometry. Mastery in this area not only strengthens problem-solving skills but also provides a solid foundation for success in many areas of mathematics.	This workshop focuses on essential measurement concepts, including perimeter, area, surface area, and volume of various shapes. Students will also explore real-world applications to build their problem-solving skills and deepen their understanding of geometry and measurement.

### Year 9

January 22, 2025 (Wednesday) <i>2.00pm - 4.30pm</i>	January 23, 2025 (Thursday) <i>2.00pm - 4.30pm</i>	January 24, 2025 (Friday) <i>2.00pm - 4.30pm</i>
Algebra and Equations	Trigonometry	Linear Relationships
Year 9 Algebra and Equations This workshop focuses on mastering linear equations, solving simultaneous equations, and working with inequalities. Students will build essential skills through a combination of fluency and applied problem-solving, providing a strong foundation for advanced topics like Linear Relationships and Quadratics.	This workshop introduces students to the fundamentals of trigonometry, including understanding right-angled triangles and the sine, cosine, and tangent ratios. These essential skills are not only crucial for success in later topics such as Geometry and Non-Right-Angled Trigonometry but also have practical applications in measurement and real-world problem-solving.	This topic connects the concepts of algebra and equations to advanced graphing. It lays a strong foundation for Year 10 topics like Bivariate Data and Non-Linear Relationships. The workshop balances fluency practice with applied problem-solving to build both understanding and confidence.

### Year 10

January 22, 2025 (Wednesday) <i>2.00pm - 4.30pm</i>	January 23, 2025 (Thursday) <i>2.00pm - 4.30pm</i>	January 24, 2025 (Friday) <i>2.00pm - 4.30pm</i>
Algebra and Equations	Trigonometry	Non Linear Relationships
The complexity of algebra and equations increases significantly in Year 10, making this a critical topic for students aiming to succeed in Advanced or Standard Mathematics in Year 11. This workshop ensures they have the foundational knowledge and problem-solving skills required.	This workshop focuses on non-right triangle techniques, including the sine rule, cosine rule, and calculating the area of a triangle. Students will apply these concepts to a variety of problems such as bearings, with an emphasis on exam-style questions to build confidence and mastery.	This workshop explores the complexities of non-linear relationships, including exponential and quadratic functions. Students will learn how to graph and analyse these relationships, preparing them for advanced studies in Year 11 and beyond. With a focus on fluency and application, this session ensures students build both understanding and confidence.

Year 11 Standard		
<b>January 23, 2025 (Thursday)</b> 1.00pm - 4.30pm	<b>January 28, 2025 (Wednesday)</b> 1.00pm - 4.30pm	<b>January 29, 2025 (Wednesday)</b> 1.00pm - 4.30pm
<b>Measurement</b>	<b>Equations and Linear Relationships</b>	<b>Mock Exam Measurement, Equations and Linear</b>
<p>A key topic in Year 11 Standard Mathematics, this workshop covers essential concepts such as accuracy and precision, the trapezoidal rule, time zones, and volume and capacity conversions. It provides a comprehensive understanding of these unfamiliar areas to build confidence and mastery.</p>	<p>This workshop combines two critical topics in Year 11 Standard Mathematics, offering both a refresher for foundational skills and advanced applications in exam-style situations. It's essential for building confidence and mastering linear equations and their real-world uses.</p>	<p>This workshop provides Year 11 Standard Mathematics students with the opportunity to complete a full-length mock exam focused on critical topics like measurement, equations, and linear relationships. The session emphasises practical applications and problem-solving techniques, helping students navigate common challenges. Post-exam feedback ensures students refine their understanding and improve their approach to exam-style questions, building a strong foundation for Year 12.</p>

Year 11 Advanced/Extension 1		
<b>January 23, 2025 (Thursday)</b> 9.00am - 12.00pm	<b>January 28, 2025 (Tuesday)</b> 9.00am - 12.00pm	<b>January 29, 2025 (Wednesday)</b> 9.00am - 12.00pm
<b>Functions</b>	<b>Trigonometry</b>	<b>Mock Exam - Functions and Trigonometry</b>
<p>This workshop explores the foundational concepts of functions, including domain, range, and transformations. A critical topic for Advanced and Extension 1 Mathematics, it prepares students for graphing and problem-solving in more complex scenarios.</p>	<p>This workshop covers advanced trigonometric concepts, including identities, equations, and graphing trigonometric functions. Students will explore applications to non-right triangles and tackle challenging problems, building essential skills for Advanced and Extension 1 Mathematics.</p>	<p>This mock exam focuses on key (and usually the first 2) topics from Year 11 Advanced and Extension 1 Mathematics, i.e. functions and trigonometry. Students will practice solving challenging problems under exam conditions, covering essential concepts such as graphing, transformations, and trigonometric identities. Following the exam, tutors will provide detailed feedback and personalized strategies to address common mistakes, helping students gain a deeper understanding and confidence for their Year 12 journey.</p>

### Year 12 Standard

January 23, 2025 (Thursday) 1.00pm - 4.30pm	January 24, 2025 (Friday) 1.00pm - 4.30pm	January 28, 2025 (Tuesday) 1.00pm - 4.30pm
<b>Non Right Angled Trigonometry / Bivariate Data</b>	<b>Financial Mathematics</b>	<b>Mock Exam - Non Right Angled Trigonometry / Bivariate Data</b>
<p>This workshop focuses on two key topics that is often taught in Term 1 of the new year in schools, and have frequently appeared in recent HSC exams. In Trigonometry, we'll break down challenging concepts like bearings into manageable steps, ensuring students build a solid foundation and approach problems systematically. We will then cover essential exam questions from the Bivariate Data topic.</p>	<p>This workshop covers key finance concepts, including annuities, loans, and investments. Students will learn to tackle a variety of problems, such as interpreting data from tables and addressing word problems—a common challenge for many students across the state. By focusing on clear strategies and practice, this session ensures a strong grasp of this critical topic.</p>	<p>In this mock exam, Year 12 Standard Mathematics students will tackle questions from two significant HSC topics: Non-Right Angled Trigonometry and Bivariate Data. The session is designed to simulate real exam conditions, helping students apply learned techniques such as the sine and cosine rules and data interpretation for scatterplots and regression. Tutors will review solutions, address tricky areas, and provide targeted strategies to boost exam confidence and performance.</p>

### Year 12 Advanced/Extension

January 23, 2025 (Thursday) 9.00am - 12.00pm	January 24, 2025 (Friday) 9.00am - 12.00pm	January 28, 2025 (Tuesday) 9.00am - 12.00pm
<b>Mastering Calculus - Differentiation</b>	<b>Mastering Calculus - Integration</b>	<b>Prep for Y12 Adv/Ext: Mock Exam - Mastering Calculus</b>
<p>This workshop focuses on further differentiation techniques and their applications. Students will learn how to use derivatives for curve sketching and optimisation, mastering the skills needed to analyze functions and solve real-world problems effectively. A critical workshop for building a strong calculus foundation.</p>	<p>This workshop dives into the essentials of integration, starting with fundamental techniques and progressing to solving integration problems, including advanced and challenging applications. Designed to build confidence and proficiency, this session equips students with the skills to tackle complex calculus problems.</p>	<p>This workshop offers students the invaluable experience of sitting a mock exam under timed conditions, designed to replicate the HSC Advanced and Extension 1 exams. Students will tackle questions that mirror recent HSC trends, including differentiation, integration, and graphing problems. Following the exam, our tutors will provide detailed feedback, highlighting areas for improvement and teaching strategies to avoid common pitfalls. This session ensures students build confidence and refine their exam techniques, setting them up for success in the real exam environment.</p>