

Year 8 (2022)



MATHEMATICS

Term 1 Common Test Task Notification

Date	Week 8A Monday 14 th March 2022 and Tuesday 15 th March 2022								
Classes Assessed	Compulsory for:								
	Monday 14 th March 2021		Tuesday 15 th March 2021						
	8 MATI (Mr Salame)	Period 5	8 MATR	(Mr Salame)	Period 2				
	8 MATB (Mrs Ibrahim)	Period 4	8 MATO	(Mrs Ibrahim)	Period 2				
	8MATP (Mrs Attaalla)	Period 2	8 MATY	(Mr Mansouri)	Period 2				
	8MATV (Ms HUI)	Period 2	8 MATG	(Mr Smithard)	Period 2				
Weighting	25% of Year 8 Mathematics Assessment								
	Read the following details carefully and write them into your diary.								
Examination Details	Duration: 50 minutes								
	Format: Calculator								
	Venue: Classrooms								
Equipment Required	 The following equipment is required for this assessment task: Blue and/or black pens Lead Pencils Ruler & Eraser Board-approved scientific calculator Note: No borrowing of equipment will be permitted. A reference sheet (attached) will be provided for this examination. No handwritten summaries will be permitted. 								
Marking Criteria	 All questions should be attempted. All questions are worth 1 mark unless otherwise indicated. To obtain full marks, answers must be completely correct and all necessary working must be shown. Some marks may be awarded for partially correct answers. Trivial attempts will be counted as a non-attempt and may result in an official warning letter being issued. 								
Absentee Procedures	If you are absent on the da	ay of this exa	mination,	upon your return t	to school you must				
	present a Medical Certificate to your Class Teacher or the Head Teacher explaining your								
	absence, otherwise a mark of zero may be awarded. You will be required to sit for your examination on the first day you return to school.								

Year 8 Term 1 Common Test

The following table lists all the Stage 4 outcomes, knowledge and numeracy skills that will be assessed in this assessment task.

Strands	Assessment Outcomes			
	 Topic: ALGEBRAIC TECHNIQUES Cambridge 8 – Chapter 1 Cambridge Gold NSW 8 – Chapter 1 Essential Gold 8 – Chapter 5 (Note – Consult the other two texts for Indices) 			
	MA4-8NA	Generalises number properties to operate with algebraic expressions.		
Number	MA4-9NA	Operates with positive-integer and zero indices of numerical bases. *		
and Algebra	* Note: You will be expected to be able to apply index laws to both numerical and algebraic bases.			
	Topic: EQUATIONS 2			
	ONLY Exercices 2A & 2B only: Reviewing equations and Equivalent equations			
	 Cambridge 8 – Chapter 2 Cambridge Gold NSW 8 – Chapter 2 Essential Gold 8 – Chapter 7 			
	MA4-10NA	Uses algebraic techniques to solve simple linear equations.		
	MA4-1WM	Communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols.		
Working Mathematically	MA4-2WM	Applies appropriate mathematical techniques to solve problems.		
	MA4-3WM	Recognises and explains mathematical relationships using reasoning.		



Year 8 Reference Sheets: Algebraic Techniques 2 and Indices Equations 2





Stage 4 Mathematics Grading Scale

The following table lists outcomes and sample performance descriptors that students can typically achieve to be awarded the respective grades outlined.

Year 8	ACHIEVEMENT						
TOPIC / OUTCOME	Limited (E)	Basic (D)	Sound (C)	High (B)	Extensive (A)		
Algebraic Techniques 2 MA4-8NA generalises number properties to operate with algebraic expressions MA4-9NA Operates with positive-integer and zero indices of numerical bases.	Evaluate simple expressions using substitution.	Generate a number pattern from an algebraic expression.	Expand algebraic expressions by removing grouping symbols. Factorise algebraic expressions by identifying numerical factors.	Factorise more difficult algebraic expressions by identifying negative numerical factors.	Factorise algebraic expressions with both negative and algebraic factors.		
Equations MA4-10NA uses algebraic techniques to solve simple linear and quadratic equations.	Recognise pronumerals and variables and be able to solve simple one step equations.	Solve simple linear equations up to two steps. Recognise that simple quadratic equations have two solutions.	Solve two-step equations involving negative numbers e.g. -2x + 7 =19. Check solutions to equations by substituting. Solve simple quadratic equations.	Solve, and explain an appropriate technique to solve, linear equations that involve grouping symbols and an algebraic fraction. e.g. (2x+3)/5 =10 and 2x/5 +3 = 10	Solve linear equations that may have non-integer solutions that may be up to three steps with pronumerals on both sides. Describe the techniques required to solve a variety of equations demonstrating a conceptual understanding.		