

Year 10 (2022) MATHEMATICS



Term 4 Stage 5.3 Task Notification

Date	Week 4B: Period 5 Thursday, 3 rd November, 2022
Weighting	10%
Classes Assessed	This assessment is compulsory for 10MATR
	Read and acknowledge receipt of this notification via Google Classroom.
Examination Details	Duration: 50 minutes
	Format: Calculator Venue: Classroom
	The fellowing equipment is good for this accessore took
Equipment Required	The following equipment is required for this assessment task: • Blue and/or black pens • Board-approved scientific calculator • Pencil and eraser • Ruler
	 Note: A reference sheet will be provided. No phones, notes or borrowing of equipment 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 day of this examination, upon your return 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.

Syllabus Outcomes

The following table lists all the Stage 5 knowledge and numeracy skills that will be assessed in this examination.

Strands	Assessment Outcomes
Measurement And Geometry	Topic: <u>Trigonometry</u> MA5.2-13MG applies trigonometry to solve problems, including problems involving bearings MA5.3-15MG applies Pythagoras' theorem, trigonometric relationships, the sine rule, the cosine rule and the area rule to solve problems, including problems involving three dimensions
Number and Algebra	Topic: Quadratic expressions and quadratic equations MA5.2-8NA solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques MA5.3-7NA solves complex linear, quadratic, simple cubic and simultaneous equations, and rearranges literal equations
Number and Algebra	Topic: Non-linear relationships, functions and their graphs MA5.2–10NA A student connects algebraic and graphical representations of simple non-linear relationships. MA5.3–9NA A student sketches and interprets a variety of non-linear relationships.
Working Mathematically	MA5.2-1WM selects appropriate notations and conventions to communicate mathematical ideas and solutions MA5.2-2WM interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems MA5.2-3WM constructs arguments to prove and justify results MA5.3-1WM uses and interprets formal definitions and generalisations when explaining solutions and/or conjectures MA5.3-2WM generalises mathematical ideas and techniques to analyse and solve problems efficiently MA5.3-3WM uses deductive reasoning in presenting arguments and formal proofs
Textbook Chapters	• Cambridge 10: 5.3 Chapters 7, 8, 9