LACHLAN ACCESS PROGRAM

ASSESSMENT TASK NOTIFICATION

Subject: 12 Mathematics Standard 2	**Task Number:** 4
Type of Task: HSC Trial Examination	**Coordinating Teacher:** Miss Simone Parkinson **Cooperating Teachers:** Mrs Judith Davis, Mr Kali Ratu Roraduri
Date Issued: Term 3 Week 3 Tuesday 5th August, 2025	**Date Due:** Term 3 Week 5 Thursday 21st August, 2025
Total Marks: 100	**Weighting:** 30%

Submission Instructions: *Complete task as per the exam timetable. The exam, formula sheet and all paper used it to be handed in at the end of the exam. You are not permitted to remove the exam from the examination room.*

Task Context:

The trial HSC exam will test students on their ability to solve questions relating to the following topics:
MS-A4 – Types of Relationships, MS-M6 – Non-right-angled Trigonometry, MS-M7 – Rates & Ratios,
MS-S4 – Bivariate Data Analysis, MS-S5 – The Normal Distribution, MS-N2 – Network Concepts
MS-N3 – Critical Path Analysis, MS-F4 – Loans and Investments, MS-F5 - Annuities
Please note that any content from Year 11 can and will be assessed.

Syllabus Outcomes:

MS2-12-1 uses detailed algebraic and graphical techniques to critically evaluate and construct arguments in a range of familiar and unfamiliar contexts

MS2-12-2 analyses representations of data in order to make inferences, predictions and draw conclusions

MS2-12-3 interprets the results of measurements and calculations and makes judgements about their reasonableness, including the degree of accuracy and the conversion of units where appropriate

MS2-12-4 analyses two-dimensional and three-dimensional models to solve practical problems

MS2-12-5 makes informed decisions about financial situations, including annuities and loan repayments

MS2-12-6 solves problems by representing the relationships between changing quantities in algebraic and graphical forms

MS2-12-7 solves problems requiring statistical processes, including the use of the normal distribution and the correlation of bivariate data

MS2-12-8 solves problems using networks to model decision-making in practical problems

MS2-12-10 uses mathematical argument and reasoning to evaluate conclusions, communicating a position clearly to others and justifying a response

Task Description:

- *In this task you will undertake a formal examination with 10 minutes reading time before an allocated 2 ½ (two and one half) hours to complete the task.*
- *A NESA reference sheet will be provided.*
- *You may use a NESA approved calculator.*
- *You must write in blue or black pen but use of a pencil, ruler and rubber are advised for the working of visual materials such as graphs and network problems.*
- *There will be 15 Multiple Choice questions. You may do any calculations for these on the examination sheet. This area will not be marked. You must answer the Multiple Choice on the provided (Section 1) answer sheet.*
- *Marks will be allocated as per the examination*
- ***You should take in the following items:** calculator (2), blue or black pens (2+), ruler (clear), pencil, eraser, highlighter.*

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Criteria for Assessing Learning

You will be assessed on your ability to:

- Demonstrate knowledge of content and understanding of course content
- Communicate skills and processes in a wide variety of contexts
- Demonstrate skills in recounting information and communicating ideas
- Communicate creative and critical thinking skills

HSC Key Verbs

Determine - Use evidence to decide
Calculate - Ascertain/determine from given facts, figures or information
Compare - Show how things are similar or different
Complete – Finish the item started
Convert – Give an equivalent number in a different format
Draw – Represent in pictorial form
Describe - Provide characteristics and features
Estimate – Give an answer using a mathematical reasoning that is not exact
Hence – Solve using the result from a previous question
List – Write the solution succinctly
Outline – Communicate reasoning, this could use both mathematical symbols and words

NESA "All My Own Work"

By signing for this assessment task and having completed the NESA course "All My Own Work" I confirm that this assessment task will be free from plagiarism and reflective of my own work. I understand that if I am found to have plagiarised or engaged in malpractice, I will be referred to the HT Access to engage the LAP Malpractice process.

Marking Guidelines:

There will be 15 Multiple Choice questions. Each question can earn 1 mark. You may do any calculations for these on the examination sheet. This area will not be marked. You must answer the Multiple Choice on the provided (Section 1) answer sheet.

The remaining 85 marks are for responses which solve problems or explain, analyse or justify a diagram or result. The marks for each question are noted on the examination paper. Part marks are available for work which demonstrates some progress to the solution. This may be achieved by showing calculations or by labelled diagrams or sketches.

Marks will be allocated on the examination. Full marks will not be awarded for bald answers where relevant working is required.

Please note that there is an average allowance of 1 ½ (one and a half) minutes per question**.**

Description	Marks
• Section 1 – Multiple Choice problems	15
• Section 2 – Short Response problems	85
• Total	100