



MOUNT ANNAN HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Year 12 Stage 6	
Subject: Mathematics Standard 2	Focus Area: Non-right angled Trigonometry Ratios and Rates, Bivariate Data Analysis, The Normal Distribution
Weighting: 20%	Date of Task: Friday 15 th March 2024
Task No.: 2	Type of Task: In Class Test

Outcomes addressed

A student:

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 problems
MS2-12-7	Solves problems requiring statistical processes, including the use of the normal distribution and the correlation of bivariate data
MS2-12-9	Chooses and uses appropriate technology effectively in a range of contexts and applies critical thinking to recognises appropriate times and methods for such use
MS2-12-10	Uses mathematical argument and reasoning to evaluate conclusions, communicating a position clearly to others and justifying a response

Assessment Policy- This is a brief outline; you must check your assessment booklet for further details. Assessment task must be submitted on the due date.

- **Failure to complete an assessment task will result in a zero mark.**
- Late submission of assessment items **will be awarded zero** unless there are very extenuating circumstances (Doctor's Certificate, etc.)
- Students found guilty of malpractice will be awarded a zero mark. If a piece of work is incomplete at the time of submission, it should be submitted as is, and you will be given a mark on what has been completed.
- See their teacher or head teacher on the **first day they return** back to school.

Please see page 2 for specific task information



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Specific task information as needed:

What will task look like:	<ul style="list-style-type: none"><input type="checkbox"/> The task will be an in-class test. (Multiple Choice + Extended response)<input type="checkbox"/> You need to answer all the questions. ALL working must be shown.<input type="checkbox"/> You may bring a hand-written reference sheet 4 pages (2 double sided A4)<input type="checkbox"/> A NESA approved scientific calculator is needed to complete your test.<input type="checkbox"/> The 2023 HSC reference sheet will be supplied for the examination.		
What will be in the task	<p style="text-align: center;">This assessment task will assess your knowledge of the following topics:</p> <table border="0" style="width: 100%;"><tr><td style="width: 50%; vertical-align: top;"><ul style="list-style-type: none">● Rates and Ratios<ul style="list-style-type: none">○ Rates and concentrations○ Energy rate○ Fuel consumption rate○ Calculations with ratios○ Dividing a quantity in a given ratio○ Scale drawings ● Non-right angled trigonometry<ul style="list-style-type: none">○ Bearings○ Miscellaneous problems involving trigonometry</td><td style="width: 50%; vertical-align: top;"><ul style="list-style-type: none">● Bivariate data analysis<ul style="list-style-type: none">○ Constructing a bivariate scatterplot○ Using a bivariate scatterplot○ Pearson's correlation coefficient○ Line of best fit○ Interpolation and extrapolation○ Statistical investigation ● The Normal Distribution<ul style="list-style-type: none">○ Normally distributed data○ The 68 - 95 - 99.7 rule.○ Z-scores○ Converting Z-scores to actual scores○ Using z-scores to compare the data.○ Further applications of normal distributions</td></tr></table>	<ul style="list-style-type: none">● Rates and Ratios<ul style="list-style-type: none">○ Rates and concentrations○ Energy rate○ Fuel consumption rate○ Calculations with ratios○ Dividing a quantity in a given ratio○ Scale drawings ● Non-right angled trigonometry<ul style="list-style-type: none">○ Bearings○ Miscellaneous problems involving trigonometry	<ul style="list-style-type: none">● Bivariate data analysis<ul style="list-style-type: none">○ Constructing a bivariate scatterplot○ Using a bivariate scatterplot○ Pearson's correlation coefficient○ Line of best fit○ Interpolation and extrapolation○ Statistical investigation ● The Normal Distribution<ul style="list-style-type: none">○ Normally distributed data○ The 68 - 95 - 99.7 rule.○ Z-scores○ Converting Z-scores to actual scores○ Using z-scores to compare the data.○ Further applications of normal distributions
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Assessment Task Registration

Subject		Class		Teacher	
HSC Standard 2 Mathematics					
Task description/title: Assessment Task 2 In class test					
Name of student		Date issued	Student signature	Date submitted	Teacher signature
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