



JOHN EDMONDSON HIGH SCHOOL

Assessment Notification

Faculty: Mathematics Course: Mathematics Standard 2 Year: 12

Assessment Task: 2

Assessment Weighting: 20% Due: Term 1, Week 8 Date: Wednesday 20 March 2024

Task Type: Hand in Task In Class Task Practical Task

Outcomes Assessed (NESA)
MS11-3, MS 11-4, MS11-10, MS2-12-1, MS2-12-2, MS2-12-6 MS2-12-7, MS2-12-10, MS2-12-3, MS2-12-4
Please Note: Further information about these outcome codes can be found on the NESA Website
Task Description/Overview
This in class written examination will consist of multiple choice and short answer questions A Mathematics Standard 2 Reference Sheet will be provided Time allowed: 1 hour 30 minutes plus 5 minutes reading time Equipment Required: Black Pen(s), a NESA approved calculator and ruler
Detailed Assessment Task Description

Topics to be assessed will be:

Simultaneous linear equations:

Examination questions may require students to graph linear functions, interpret linear functions as models of physical phenomena, develop linear equations from descriptions of situations, solve a pair of simultaneous linear equations using graphical methods, find the point of intersection between two straight-line graphs, develop a pair of simultaneous linear equations to model a practical situation, solve practical problems by modelling with a pair of simultaneous linear functions, apply break-even analysis to solve simple problems.

Non-linear Relationships:

Examination questions may require students to graph and recognise a exponential functions, construct and analyse exponential models to solve practical problems, graph and recognise quadratic functions, recognise the shape of a parabola and its key features, construct and analyse quadratic models to solve practical problems, graph and recognise reciprocal functions, recognise the shape of a hyperbola and its key features, construct and analyse a reciprocal model to solve practical problems.

Rates and Ratios:

Examination questions may require students to use rates to solve and describe practical problems, use rates to make comparisons, interpret the energy rating of household appliances and compare running costs, solve practical problems involving ratios, use ratios to describe map scales, obtain measurements from scale drawings, interpret symbols and abbreviations on building plans and elevation views, calculate perimeter, area and volume using a scale.

Please Note: More detailed topic overviews are published on CANVAS

Examination Structure

Section Description	Marks Available
Section 1 – Multiple Choice	
10 Multiple Choice Questions	10
Section 2 – Short Answer	
Simultaneous linear equations	15
Non-linear Relationships	17
Rates and Ratios	18
Total Marks for this task	60

Satisfactory completion of courses

A course has been satisfactorily completed when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all the course outcomes.