

## Task 4: In Class Test

**Due Date:** Thursday 13<sup>th</sup> June 2024

<b>Task Distributed:</b> 30th May 2024	<b>Units:</b> Annuities & Types of Relationships
<b>Task Type:</b> In Class Test	<b>Task Weighting:</b> 25%
<b>Outcomes:</b> MS2-12-2, MS2-12-5, MS2-12-7, MS2-12-8, MS2-12-9, MS2-12-10	

### Task Description

You will have **45 minutes** to complete this exam. This exam will consist of two sections.

- **Section 1:** 5 multiple choice questions worth one mark each covering a range of the units listed above.
- **Section 2:** A mixture of short and long response questions worth one mark or more that require working out as part of the solution.

Your knowledge, skills and understanding in the following areas can be assessed in this examination:

<b>Annuities</b>	<b>Types of Relationships</b>
<ul style="list-style-type: none"> <li>• Find the future value and interest earned</li> <li>• Calculate the loan repayment required</li> <li>• Calculate the present value of an annuity</li> </ul>	<ul style="list-style-type: none"> <li>• Solve a pair of simultaneous equations graphically</li> <li>• Solve practical problems involving the point of intersection</li> <li>• Use values of physical phenomena, to plot graphs and make predictions</li> <li>• Sketch a range of non linear models</li> <li>• Identify the strengths and limitations of linear and non linear models</li> </ul>

### NESA Glossary of Key Words

Understand the verb associated with the task. The verb will provide an understanding of the detail needed to successfully answer the question.

- **Calculate/Evaluate** - Determine the value of
- **Prove / Show** - Provide all steps and working in a logical sequence to get to a given answer
- **Simplify** - Write an expression in its simplest form
- **Solve** - Use algebraic techniques to find a solution
- **Justify** – Use mathematical reason to make judgement on something

Check the NESA Glossary of Key Words for guidance.

<https://educationstandards.nsw.edu.au/wps/portal/nesa/11-12/hsc/hsc-student-guide/glossary-keywords>

## Details of Submission

For successful completion of this examination you must bring the following equipment.

- Board approved calculator
- Pencils and eraser for graphs
- Blue or black pen
- A ruler

Students are NOT permitted to bring an electronic device into the exam.

## Teacher Feedback and Student Self-Reflection

The task will typically be returned to students within 14 days of the due date.

At this time feedback including information on how to improve will be provided through worked solutions and a literacy marking rubric.

Students can clarify or seek further feedback by speaking with their teacher or the assessment marker.

Upon return of the task, students will also be expected to complete a self-reflection in class when the tests are returned.

## How does this link to my learning?

- This task will be used by you and your teachers to assess your knowledge and understanding of course outcomes and allow you to refine your skills as you prepare for the HSC examination.
- The marks achieved in this exam will go towards your semester 2 report.
- This task will draw together the above outcomes and assess your ability to apply a range of mathematical skills and techniques that you have covered in class.

## Assessment Procedures

All students should be fully aware of the School Assessment Procedures for their year group. These were provided at the beginning of the school year and are available off the school website under the Learning Tab for each year group