

Year 12 Mathematics Standard 2

Assessment Task 2 – 2024

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| **TOPIC**: Investment and loans, Non-right-angled trigonometry  | **MARKS:** 40 |
| **SUBMISSION REQUIREMENTS:** Week 7 – Friday 15th March - In class test. | **WEIGHTING:** 30%  |
| **OUTCOMES TO BE ASSESSED:**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 repayment.MS2-12-10 **Uses** mathematical argument and reasoning to **evaluate** conclusions, **communicating** a position clearly to others and **justifying** a response. |
| **Directional Verbs:**Solve - find an answer to, explanation for, or means of effectively dealing with a problemAnalyse - identify components and the relationship between them; draw out and relate implications Interpret - draw meaning fromMake - form a decision or judgement by putting parts together; to createUses - take, hold, or deploy as a means of accomplishing or achievingEvaluate - make a judgement based on criteria; determine the value ofCommunicate - share or exchange information, news, or ideasJustify - support an argument or conclusion |
| **TASK DESCRIPTION:**task consisting of 2 sections: **Section 1: Investment and loans** Multiple Choice: 5 questions Short Answers: 6 questions **Section 2: Non-right-angled trigonometry** Multiple Choice: 5 questions Short Answers: 6 questionsThe exam will be for **55 minutes**.**No notes or books can be used during the exam.** Equipment required: **Calculator - Ruler - Pen - Pencil - Eraser** |

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| **ASSESSMENT CRITERIA:** Show relevant mathematical working, reasoning and/or calculations.You are encouraged to revise the following concepts learnt in class.

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| Trigonometry  | Finance |
| * Right Angled Trigonometry
* Angle of Elevation and Depression
* Compass and True Bearing
* Obtuse Angles
* Area of a Triangle
* Sine Rule
* Cosine Rule
* Miscellaneous Problems
 | * Future Value
* Investment Graphs
* Appreciation and Inflation
* Shares and Dividends
* Declining Balance Depreciation
* Reducing Balance Loans
* Credit Cards Statements
* Credit Card Charges
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