

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 problem  Analyse - identify components and the relationship between them; draw out and relate implications Interpret - draw meaning from  Make - form a decision or judgement by putting parts together; to create  Uses - take, hold, or deploy as a means of accomplishing or achieving  Evaluate - make a judgement based on criteria; determine the value of  Communicate - share or exchange information, news, or ideas  Justify - 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 questions  The 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.   |  |  | | --- | --- | | 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 | |