Year 11 Standard Mathematics

Assessment Task 1 – 2024

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| **TOPICS**: **Earning Money**  **Equations and Formula** | **MARKS:**  50 |
| **SUBMISSION REQUIREMENTS:**  Examination in class on  **Tuesday 2nd April 2024 Week 10, Period 4**  ***(Revised Date)*** | **WEIGHTING: 30 %** |
| **OUTCOMES TO BE ASSESSED:**  MS11-1 **uses** algebraic and graphical techniques to **compare** alternative solutions to contextual problems.  MS11-2 **represent**s information in symbolic, graphical and tabular form.  MS11-5 **models** financial situations using appropriate tools.  MS11-6 Makes **predictions** about everyday situations based on simple mathematical  models  MS11-10 **Justifies** a response to a given problem using appropriate mathematical  terminology and /or calculations | |
| **DIRECTIONAL VERBS:**  **Use –** to apply  **Compare** – show how things are similar or different  **Represent** – recognise and name  **Model** – show by example  **Predict** – suggest what may happen based on available information  **Justify** – support an argument or conclusion | |
| **TASK DESCRIPTION:**  In class test consisting of:   * Questions 1- 11 [short answer questions on Earning Money totalling 24 marks of the total marks] * Questions 1-9 [short answer questions on Equations and Formula totalling 26 marks of the total marks]   The test will be for **55 minutes**.  Equipment required:  **NESA approved Calculator - Ruler - Pen - Pencil - Eraser ,**  **1 A4 sheet of paper with formulas, examples and other relevant information you may need to complete the assessment**  You are encouraged to revise the following concepts learnt in class. Revision sheets will be given to assist you in studying prior to the exam.   |  |  | | --- | --- | | **Earning Money** | **Equations and Formula** | | * Calculate wages and salaries * Calculate commission and royalities * Calculate overtime pay and holiday loading * Determine what are tax deductions and find taxable income * Determine the tax payable * Find the medicare levy payable * Determine an allowance payable from government tables | * Substitute into a formula and determine its solution * Solve a variety of equations including those with brackets and pronumerals on both sides * Solve equations with fractions * Rearrange a formula to change the subject * Solve BAC questions given the formula * Solve problems involving braking distance, speed and time given the formula | | |
| **ASSESSMENT CRITERIA:**  You will be marked on your ability to answer the questions correctly.  Show relevant mathematical working, reasoning and/or calculations. | |