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  modelsMS11-10 **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.

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| **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
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| **ASSESSMENT CRITERIA:**You will be marked on your ability to answer the questions correctly. Show relevant mathematical working, reasoning and/or calculations. |