**YEAR 12 Mathematics Standard 2**

**Take-home Assessment and Sighted Test**

**Due Date:** Thursday 20th February 2020 Period 3 (Week 4)  
**Assessment Name:** Sighted Test

**Mark:** \( \frac{x}{100} \)  
**Weighting:** 30%

**SYLLABUS 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 repayments  
**MS2-12-8 solves** problems using networks to model decision-making in practical problems  
**MS2-12-9 chooses** and uses appropriate technology effectively in a range of contexts, and applies critical thinking to recognize appropriate times and methods for such us  
**MS2-12-10 uses** mathematical argument and reasoning to evaluate conclusions, communicating a position clearly to others and justifying a response

**DIRECTIVES TO BE ASSESSED:**

- **Analyses:** To identify causes, key factors, relationships and possible results  
- **Choose:** To select items or answer from a collection of values  
- **Make:** To produce; cause to exist or happen; bring about  
- **Model:** To give a representation of mathematical problem obtained.  
- **Represent:** To show a general relationship that expresses similarities between objects.  
- **Solve:** To manipulate something for a particular purpose to find the answer for mathematical problems.  
- **Use:** Apply, utilise, employ in a particular situation.

**TASK DESCRIPTION:**

**PART A (50%)**: You will complete a take-home assessment, covering all coursework studied in the Mathematics Standard 2 course so far. The take-home assessment will involve multiple-choice questions and extended response questions. You need to show all working out and submit your take-home assessment to your classroom teacher on the day of the examination.

**PART B (50%)**: You will complete a 60 minute in class test. You will be required to prepare for this test by completing the attached questions as a form of study/revision. The test questions will be based on the skills in your take-home assessment and comprise of multiple choice and extended response questions.

You will be given a NESA Board-Approved formulae sheet will be provided with your test paper.

**The topics assessed are:**

- Networks N2: Networks  
- World locations and time M2: Measurement  
- Interest and depreciation F1, F4: Finance  
- Applications of mathematics  
  - Managing a home M1, F1: Measurement and Finance  
  - Owning a car F1: Finance

Check your assessment booklet for the PHS Assessment Policy
Recommended Equipment:
- Board approved scientific calculator
- Pens, ruler, pencils

ASSESSMENT CRITERIA – STUDENT CHECKLIST:

Have you:

- Revised the following topics, ensuring you have referenced syllabus documents:
  - Networks N2: Networks
  - World locations and time M2: Measurement
  - Interest and depreciation F1, F4: Financial Mathematics
  - Managing a home M1, F1: Measurement and Finance
  - Owning a car F1: Finance
- Completed ALL relevant chapters in the textbook
- Completed ALL the attached questions as a form of study/revision
- Asked your teacher for clarification/help with any work
- Attended the STEM Staffroom for help if needed