



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Year 10 5.2/5.3 Mathematics
Topic	Task 2 – Mid Course Examination
Class Teacher	Miss Bulmer
Head Teacher	Mrs Edwards
Year	10MA2
Date Given	Week 2, Term 2 2024
Date Due	Week 4, Term 2 2024
Weighting	30%

Assessment Outline

Examination – 1 period

The exam will take place in the Yalmambirra Building

- Financial Mathematics
 - Wages and Salaries, Overtime, Annual Leave Loading, Commission, Piecework, Tax – Deductions, Taxable income, PAYG, Medicare levy, Rebates and Levies, Net pay, Simple Interest, Buying on Terms, Compound Interest, Depreciation.
- Measurement
 - Units of Measurement, Significant Figures, Scientific Notation, Accuracy of Measurement, Pythagoras' Theorem – hypotenuse and short side and 3D problems, Perimeter, Area - triangles, quadrilaterals, circles, sectors, composite shapes and annulus, Surface Area of Prisms – rectangular prisms, triangular prisms, cylinders, Pyramids, Cones, and Spheres, Volume of Prisms – Cylinders, Pyramids, Cones and Spheres.
- Probability
 - Simple Probability, Experimental Probability, Venn Diagrams, Two-Way Tables, Mutually Exclusive and Non-Mutually Exclusive, Two-Step Experiments – arrays, Multi-Step Experiments – Tree Diagrams with and without replacement.

Items required:

- Calculator
- Pen

Non-completion of Task:

If you know you are going to be away on the day that the task is due, you must make alternative arrangements with your teacher beforehand. If you are suddenly away on the day that the task is due, you must contact your teacher or Head Teacher on your return to school. Documentation will be required.

Plagiarism:

Plagiarism, the using of the work of others without acknowledgement will incur serious penalties and may result in a zero award. Any cheating will also incur penalties.

Failure to follow the above procedures may result in a zero award.

The policies and procedures that are outlined on the ROSA booklet will be followed regarding the non-completion of assessment tasks.

Outcomes Assessed

MA5.1-4NA solves financial problems involving earning, spending and investing money

MA5.2-4NA solves financial problems involving compound interest

MA5.1-8MG calculates the areas of composite shapes, and the surface areas of rectangular and triangular prisms

MA5.1-9MG interprets very small and very large units of measurement, uses scientific notation, and rounds to significant figures

MA5.2-11MG calculates the surface areas of right prisms, cylinders ~~and related composite solids~~

MA5.2-12MG applies formulas to calculate the volumes of ~~composite solids composed of~~ right prisms and cylinders

MA5.3-13MG applies formulas to find the surface areas of right pyramids, right cones, spheres and related composite solids

MA5.3-14MG applies formulas to find the volumes of right pyramids, right cones, spheres and related composite solids

MA5.1-13SP calculates relative frequencies to estimate probabilities of simple and compound events

MA5.2-17SP describes and calculates probabilities in multi-step chance experiments

Examination Structure

The examination will be separated into three sections:

Section 1 – Basic Understanding Grades D/E

This section will contain questions requiring students to demonstrate a basic knowledge of content and understanding of course concepts, applying skills and processes in some familiar contexts.

Section 2- Sound Understanding Grades B/C

This section will contain questions requiring students to demonstrate sound knowledge of content and understanding of course concepts. Students will be required to solve routine problems of up to 3 steps in familiar and unfamiliar situations. They will apply some connections between concepts to attempt non-routine problems.

Section 3 – High Understanding Grade A

This section will contain questions requiring students to demonstrate extensive knowledge of content and understanding of course concepts and apply highly developed skills and processes in a range of contexts. Students will be required to make connections between concepts to solve problems in familiar and unfamiliar situations. They will use multiple connections between concepts to solve non routine problems.