



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Mathematics
Topic	End of Course Examination
Class Teacher	Brown, Sood
Head Teacher	Stevenson
Year	9 Stage 5.2
Date Given	Thursday Week 4 (5/11/20)
Date Due	Thursday Week 6 (19/11/20)
Weighting	45%

Assessment Outline

This End of Course Examination will occur during the double period in Week 6.

Required equipment

- Black or Blue pen or pencil
- Calculator
- Ruler

Topics assessed:

SECTION 1 – Financial Mathematics, Expressions & Equations, Properties of Geometrical Figures, Indices

- *Financial Mathematics - Percentage of a Quantity, Percentage Increase and Decrease, The Unitary Method, Percentage Profit and Loss, Salary and Wages, Overtime, Commission, Piecework, Annual Leave Loading, Taxable Income and Income Tax*
- *Expressions & Equations – Simplifying Expressions, Expanding Brackets, Solving 2-Step Equations, Equations with Variables on Both Sides, Equations with Brackets, Quadratic Equations, Substituting into Formulas, Worded Problems and Inequalities.*
- *Properties of Geometrical Figures – Classifying Angles, Angle Relationships, Angles on Parallel Lines, Classifying Triangles, Angle Sum of a Triangle (including Exterior Angle), Types of Quadrilaterals, Angle Sum of a Polygons (including Exterior Angle), Scale Drawings, Similar Figures and Similarity Tests, Congruent Figures and Congruency Tests.*
- *Indices – Prime Factor Trees, Index Laws (Multiplying, Dividing, Power of a Power, Zero Index, Negative Indices, Scientific Notation, Significant Figures).*

Course Outcomes:

MA5.1-1W uses appropriate terminology, diagrams and symbols in mathematical contexts

MA5.1-2W selects and uses appropriate strategies to solve problems

MA5.2-2W interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems

SECTIONS 2 AND 3 ON REVERSE SIDE

SECTION 2 - Trigonometry

- Pythagoras' Theorem
- Application of Pythagoras' Theorem
- Trigonometric Ratios
- Applying Trigonometry to solve Right-Angled Triangle Problems
- Angles of Elevation and Depression
- Three-Figure Bearings

Course Outcomes:

MA4-16MG applies Pythagoras' Theorem to calculate side lengths in right-angled triangles, and solves related problems

MA5.1-10MG applies trigonometry, given diagrams to solve problems, including problems involving angles of elevation and depression

MA5.2-2WM applies trigonometry to solve problems, including problems involving bearings.

SECTION 3 – Length, Surface Area & Volume

- Perimeter of Plane Shapes and composite shapes
- Circumference and Area of Circles and Sectors
- Area of Composite Shapes
- Surface Area of Prisms and Cylinders
- Volume and Capacity of Prisms
- Volume of Cylinders
- Converting Units of Measurement including Area and Volume

Course Outcomes:

MA4 -14MG uses formulas to calculate the volumes of prisms and cylinders, and converts between units of volume (Stage 4 outcome)

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

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

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 in both cases.

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.

