



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Mathematics
Topic	Mid Course Examination
Class Teacher	10MA3 - Harrison, 10MA4 - Stevenson
Head Teacher	Ms Stevenson
Year	10 – Stage 5.2
Date Notification Given	Week 1 – Thursday 23 rd July
Date of Examination	Week 3 – Friday 7 th August
Weighting	40%

Assessment Outline

In class examination – 1.5 hours (Double Period)

Topics to be covered:

Measurement

- Units of Measurement
- Significant Figures
- Scientific Notation – Large & Small Numbers
- Accuracy of Measurement
- Pythagoras Theorem – Finding the Hypotenuse and Shorter Side
- Perimeter
- Area – Triangles, Quadrilaterals, Circles and Sectors
- Area of Composite Shapes
- Surface Area – Prisms and Cylinders
- Volume – Prisms and Cylinders

Algebraic Expressions and Indices

- Terminology and Substitution
- The Four Operations
- Expanding Brackets
- Factorising
- Algebraic Fractions – Addition, Subtraction, Division and Multiplication
- Index Laws
- Negative Indices

Probability

- Theoretical Probability
- Venn Diagrams and Two-Way Tables
- Mutually and Non-Mutually Exclusive Events
- Two- Step Experiments
- Probability Tree Diagrams
- Dependant and Independent Events

Single Variable and Bivariate Statistics

- Types of Data
- Mean, Mode and Median
- Range
- Frequency Tables
- Dot Plots
- Stem and Leaf Plots – including Back-to-Back
- Frequency Histograms and Polygons
- Shape of a Frequency Distribution
- Comparing Data Sets
- Quartiles and Interquartile Range
- Box and Whisker Plots – including Parallel Boxplots
- Scatter Plots
- Bivariate Data involving Time and Statistics in the Media

Equations and Linear Relationships

- Solving Linear Equations – One Step, Two Step, including Fractions, Brackets and Pronumerals on Both Sides
- Linear Inequalities
- Gradient-Intercept Formula
- x and y-intercepts
- Finding the Equation of a Line
- Distance of an Interval
- Midpoint of an Interval
- Parallel and Perpendicular Lines

Required equipment

- Black or Blue pen or pencil, eraser and ruler.
- Scientific Calculator

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.

Outcomes Assessed

- **MA5.2-11MG** calculates the surface areas of right prisms, cylinders and related composite solids
- **MA5.2 7NA** applies index laws to operate with algebraic expressions involving integer indices
- **MA5.2-17SP** describes and calculates probabilities in multi-step chance experiments
- **MA5.2-16SP** investigates relationships between two statistical variables, including their relationship over time
- **MA5.2-9NA** uses the gradient-intercept form to interpret and graph linear relationships