

ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Year 10 Mathematics 5.2
Торіс	End of Course Examination
Class Teacher	Ms Bulmer, Mr Gurjar
Head Teacher	Mrs Edwards
Year	2023
Date Given	26/10/2023
Date Due	09/11/2023
Weighting	35%

Assessment Outline

Period 1 in-class examination

Topics assessed:

Measurement from semester one

Algebraic expressions and indices from semester one

Probability from semester one

Single variable and bivariate statistics from semester one

Geometrical figures

- Congruent and similar triangle proofs
- Using congruence or similarity to find side lengths or angle sizes
- Solving problems with polygons involving internal and external angles

Working Mathematically

Period 4 in-class examination

Topics assessed:

Equations and linear relationships

- Systematically solving linear equations, with one-step, two-step, three-step, or variable on both sides
- Solving simultaneous equations algebraically or graphically
- Graphing linear relationships using various techniques
- Solving questions involving properties of lines including gradient, intercepts, distances, midpoints
- Interpreting linear graphs
- Solving inequalities and graphing solutions

Trigonometry

- Recognising names of sides, and correct trigonometric ratio for given problems
- Finding missing angles or sides in right-angled triangles from trigonometric equations
- Solving questions with angle of elevation/depression or bearings

Quadratic expressions and quadratic equations

- Expanding and simplifying binomial expressions
- Factorising monic quadratic expressions

Working Mathematically

Required equipment

- Black or Blue pen or pencil
- Calculators are allowed

Course Outcomes:

- selects appropriate notations and conventions to communicate mathematical ideas and solutions MA5.2-1WM
- interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems MA5.2-2WM
- constructs arguments to prove and justify results MA5.2-3WM
- solves financial problems involving compound interest MA5.2-4NA
- recognises direct and indirect proportion, and solves problems involving direct proportion MA5.2-5NA
- simplifies algebraic fractions, and expands and factorises quadratic expressions MA5.2-6NA
- applies index laws to operate with algebraic expressions involving integer indices MA5.2-7NA
- solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques MA5.2-8NA
- uses the gradient-intercept form to interpret and graph linear relationships MA5.2-9NA
- calculates the surface areas of right prisms, cylinders and related composite solids MA5.2-11MG
- applies formulas to calculate the volumes of composite solids composed of right prisms and cylinders MA5.2-12MG
- applies trigonometry to solve problems, including problems involving bearings MA5.2-13MG
- calculates the angle sum of any polygon and uses minimum conditions to prove triangles are congruent or similar MA5.2-14MG
- uses quartiles and box plots to compare sets of data, and evaluates sources of data MA5.2-15SP
- investigates relationships between two statistical variables, including their relationship over time MA5.2-16SP
- describes and calculates probabilities in multi-step chance experiments MA5.2-17SP

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 noncompletion of assessment tasks.