



# ORANGE HIGH SCHOOL

## ASSESSMENT TASK NOTIFICATION

<b>Subject</b>	Year 10 5.2 Mathematics
<b>Topic</b>	Task 4 – End of Course Examination
<b>Class Teacher</b>	Mrs Arnott, Ms Stevenson
<b>Head Teacher</b>	Ms Stevenson
<b>Year</b>	10MA3, 10MA4
<b>Date Given</b>	Week 3, Term 4 2022
<b>Date Due</b>	Thursday 10 <sup>th</sup> November, Week 5, Term 4 2022
<b>Weighting</b>	40%

### Assessment Outline

#### **In Class Examination – 2 periods**

- **Semester One Content** - Measurement, Algebraic Expressions & Indices, Probability, Single Variable & Bivariate Statistics, Equations & Linear Relationships
- **Properties of Geometrical Figures** – complementary angles, supplementary angles, vertically opposite, angles at a point, parallel lines (alternate, corresponding & co-interior), angle sum of a triangle, exterior angle of a triangle, angle sum of quadrilateral, angle sum and exterior angle of a polygon, congruent triangles, similar figures and scale factor, similar triangles
- **Trigonometry** – Pythagoras' Theorem hypotenuse and short side, practical application of Pythagoras' Theorem, trigonometric ratios SOH CAH TOA, finding a missing side, finding a missing angle, rounding to degrees, minutes and seconds, angles of elevation and depression, true and compass bearings
- **Quadratic Expressions & Quadratic Equations** – expanding brackets, expanding binomial products using FOIL, factorising expressions – binomial, grouping in pairs, difference of two squares, factorising monic quadratic trinomials

#### 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 classes.

#### Plagiarism:

Plagiarism, the using of the work of others without acknowledgement will incur serious penalties and may result in 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

**MA5.2-1WM** selects appropriate notations and conventions to communicate mathematical ideas and solutions

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

**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

**MA5.2-13MG** applies trigonometry to solve problems, including problems involving bearings

**MA5.2-14MG** calculates the angles sum of any polygon and uses minimum conditions to prove two triangles are congruent or similar

**MA5.2-6NA** simplifies algebraic fractions, and expands and factorises quadratic expressions

**MA5.2-7NA** applies index laws to operate with algebraic expressions involving integer indices

**MA5.2-8NA** solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques

**MA5.2-9NA** uses the gradient-intercept form to interpret and graph linear relationships

**MA5.2-15SP** uses quartiles and box plots to compare sets of data, and evaluates sources of data

**MA5.2-16SP** investigates relationships between two statistical variables, including their relationship over time

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