



# ORANGE HIGH SCHOOL

## ASSESSMENT TASK NOTIFICATION

<b>Subject</b>	Year 10 Mathematics Stage 5.2
<b>Class Teacher</b>	Harris, Sood.
<b>Head Teacher</b>	Ms Jo Stevenson
<b>Year</b>	End of Course Examination 2019
<b>Date Given</b>	29 <sup>th</sup> October, 2019
<b>Date of the Test</b>	13 <sup>th</sup> and 14 <sup>th</sup> November, Periods three and two respectively
<b>Weighting</b>	35%

### Assessment Outline

#### **PART ONE 13<sup>TH</sup> NOVEMBER**

- **Unit 1 –Measurement MA4-14MG** Uses formulas to calculate the volumes of prisms and cylinders, and converts between units of volume.  
**MA5.2-1WM** Selects appropriate notations and conventions to communicate mathematical ideas and solutions.
- **Unit 2 - Algebraic Techniques - MA4-8NA** Generalizes number properties to operate with algebraic expressions  
**Indices – MA5.2-7MA** Applies index laws to operate with algebraic expressions involving integer indices.
- **Unit 7 - Trigonometry –MA5.2-2WM** Applies Trigonometry to solve problems, including problems involving bearings.
- **Unit 8 – Quadratic expressions and Quadratic Equations – MA5.2-1WM** – Selects appropriate notations and conventions.  
**MA5.2-6NA** - Simplifies algebraic fractions, and expands and factorises quadratic expressions.

**TOPICS:** Scientific Notation, significant figures, very small and very large numbers, surface area and volume for all right prisms and cylinders, algebraic manipulations, simplifying in Algebra, Applying Laws of Indices, expanding binomials, factorizing trinomials, perfect square, difference of two squares and taking HCF out in an expression, Using SOH CAH TOA to find the missing side or an angle in right angled triangle, converting an angle measure to degrees and minutes, angle of elevation and depression, drawing true bearings.

#### **PART TWO 14<sup>TH</sup> NOVEMBER**

- **Unit 3 – Probability - MA5.2-1WM, MA5.2-2WM** - Selects appropriate notations and conventions to communicate mathematical ideas and solutions.  
**MA5.2-3WM** - Constructs arguments to prove and justify results. Describes and calculates probabilities in multi-step chance experiments.
- **Unit 4 – Single Variable and Bivariate Statistics - MA5.1-12SP** - Uses statistical displays to compare sets of data, and evaluates statistical claims made in the media.  
**MA5.2-15SP**- Uses quartiles and box plots to compare sets of data, and evaluates sources of data.

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

- **Unit 5 - Equations and Linear Relationships - MS5.2-8NA-** solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques.

**MS5.1-6NA-** Determines the midpoint, gradient and the length of an interval, and graphs linear relationship.

**MS5.2-9NA-** Uses the gradient intercept form to interpret and graph linear relationships.

- **Unit 6 - Properties of Geometrical Figures- MA4-18MG** – Identifies and uses angle relationships, including those related to transversals on sets of parallel lines.

**MA5.1-11MG-** Describes and applies the properties of similar figures and scale drawings.

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

**Topics:**

**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.

**Cheating and Plagiarism:**

Any cheating and plagiarism may incur penalties and result in a zero mark.

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

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