ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Year 8 Mathematics End of Course Examination 2020 (In class Test)
Topics	Pythagoras' Theorem, Measurement, Algebraic Techniques, Indices, Circles, Financial Maths, Data, Equations, Rates & Ratios.
Class Teacher	Saini, Smith, Brown, Routh, Harrison, Sood, Lummis/Jones
Head Teacher	Ms. Joanne Stevenson
Date Given	Week Three
Date Due	Week Five
Weighting	45%

Assessment Outline

In class examination – 1 period

Topics and outcomes assessed are:

- **Pythagoras' Theorem & Measurement -** unit conversion in length, applying Pythagoras Theorem to calculate the hypotenuse, applying Pythagoras Theorem to calculate one of the shorter sides, Pythagorean triads, unit conversions in area, area of triangle, rectangle, special quadrilaterals, composite areas, volume of right prisms
- **Algebraic Techniques & Indices** - terminology in Algebra, substitution, adding and subtracting like terms, multiplying and dividing like terms, expanding brackets, factorising algebraic expressions, problem solving with algebra, the index laws
- **Financial Mathematics** - fractions, decimal and percentage conversions, percentage of a quantity, increase and decrease by a percentage, GST, calculating percentage change, profit and loss, best buys, calculating percentage using unitary method
- **Circles & Cylinders** - parts of a circle, calculating circumference and area of a circle, calculating perimeter of composite shapes, calculating area of composite shapes, volume of a cylinder
- **Data** – types of data, sampling, data collection, dot plots, column graphs, line graphs, sector graphs, divided bar graphs, frequency tables, frequency histograms and polygons, steam and leaf plot, range, mode, mean, median, outliers
- **Equations** – equivalent equations, backtracking, balancing method & solving multi-step equations, equations with fractions, equations with pronumerals on both sides, equations with brackets, formulas & relationships, inequalities
- **Rates & Ratios** – ratios, simplifying ratios, dividing a quantity in a given ratio, equivalent ratios, scale drawings.

Please bring your pen, calculator and ruler on the day of the examination.

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.

- MA4-12MG - calculates the perimeters of plane shapes and the circumferences of circles
- MA4-13MG - uses formulas to calculate the areas of quadrilaterals and circles, and converts between units of area
- MA4-14MG - uses formulas to calculate the volumes of prisms and cylinders, and converts between units of volume
- MA4-16MG - applies Pythagoras' Theorem to calculate side lengths in right-angled triangles, and solves related problems
- MA4-5NA - operates with fractions, decimals and percentages
- MA4-6NA - solves financial problems involving purchasing goods
- MA4-7NA - operates with ratios and rates, and explores their graphical representation
- MA4 8NA - generalises number properties to operate with algebraic expressions
- MA4-9NA - operates with positive-integer and zero indices of numerical bases
- MA4-10NA - uses algebraic techniques to solve simple linear and quadratic equations
- MA4-19SP - collects, represents and interprets single sets of data, using appropriate statistical
- MA4-20SP displays analyses single sets of data using measures of location, and range