## ORANGE HIGH SCHOOL

## ASSESSMENT TASK NOTIFICATION

| Subject | Mathematics |
| :--- | :--- |
| Topics | Measurement, Surds \& Indices, Probability |
| Class Teacher | SOOD, BENSON |
| Head Teacher | Edwards |
| Year | 105.3 |
| Date Given | Week 3 - Tuesday 9/5/22 |
| Date Due | Week - Tuesday 23/5/22 |
| Weighting | $30 \%$ |

## Assessment Outline

## 1 PERIOD In-Class Examination

Topics assessed:

| Measurement Chapter 1 | Surds \& Indices Chapter 2 | Probability Chapter 3 | Data \& Statistics Chap 4 |
| :--- | :--- | :--- | :--- |
| -Converting Units of | -Simplifying Surds | -Simple Probability | -Collecting, using and |
| Length, Area \& Volume | -Adding \& Subtracting | -Venn Diagram \& Two | misusing Data 4A |
| -Measures of Digital | Surds | Way Tables |  |
| Information | -Multiplying \& Dividing | -Mutually Exclusive \& | -Review of Data Displays |
| -Significant Figures | Surds | Non-Mutually Exclusive | 4B |
| -Limits of Accuracy | -Binomial Expansions with | Events |  |
| -3D Pythagoras | Surds including Perfect | -Two-Step Experiments | -Summary Statistics 4C |
| -Perimeter of Simple and | Squares \& Difference of | and Arrays |  |
| Composite Shapes | Two Squares | -Multistep Experiments \& |  |
| -Area of Simple and | -Rationalising | Tree Diagrams |  |
| Composite Shapes | Denominators |  |  |
| -Volume and Surface | -Index Laws (Multiplying, |  |  |
| Areas of Prisms, Cylinder, | Dividing, Power of a |  |  |
| Pyramids, Cones \& | Power, Zero Index, |  |  |
| Spheres | Negative Indices \& |  |  |
|  | Fractional Indices) |  |  |
|  | -Exponential Equations |  |  |
|  | -Exponential Growth \& |  |  |
|  | Decay |  |  |
|  | -Scientific Notation |  |  |

## Required equipment

- Black or Blue Pen or Pencil
- Eraser
- School Approved 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.
Course Outcomes:

- MA5.1-1WM uses appropriate technology, diagrams and symbols in mathematical contexts
- MA5.3-2WM generalises mathematical ideas and techniques to analyse and solve problems efficiently
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- 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
- MA5.1-8MG calculates the areas of composite shapes, and the surface areas of rectangular and triangular prisms
- MA5.2-11MG calculates the surface areas of right prisms, cylinders and related composite solids
- MA4-14MG uses formulas to calculate the volumes of prisms and cylinders, and converts between units of volume
- MA5.2-12MG applies formulas to calculate the volumes of composite solids composed of right prisms and cylinders
- MA5.3-13MG applies formulas to find the surface areas of right pyramids, right cones, spheres and related composite solids
- MA5.3-14MG applies formulas to find the volumes of right pyramids, right cones, spheres and related composite solids
- MA5.3-15MG applies Pythagoras' Theorem, trigonometric relationships, the sine rule, the cosine rule and the arearule to solve problems, including problems involving three dimensions
- MA5.3-6NA performs operations with surds and indices
- MA5.2-7NA applies index laws to operate with algebraic expressions involving integer indices
- MA5.1-2WM selects and uses appropriate strategies to solve problems
- MA5.1-13SP calculates relative frequencies to estimate probabilities of simple and compound events.
- MA5.2-17SP describes and calculates probabilities in multi-step chance experiments

