## ORANGE HIGH SCHOOL

## ASSESSMENT TASK NOTIFICATION

| Subject | Year 10 5.3 Mathematics |
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| Topic | Task 4 - End of Course Examination |
| Class Teacher | Mr Benson, Mrs Sood |
| Head Teacher | Mrs Edwards |
| Year | 10MA1, 10MA2 |
| Date Given | Week 3, Term 4 2022 $\quad$ Thursday 26/10/23 |
| Date Due | Thursday 9 |
| 畐 November, Week 5, Periods One and Four |  |
|  | $35 \%$ |

## Assessment Outline

## In Class Examination - 2 periods

You will have TWO PERIODS to complete the examination.
You are NOT allowed to bring any support material into the examination.
A formula sheet would be provided.

## Period 1 - the first column.

Period 4 Columns 2 and 3.

## Topics assessed:

- Measurement
- Surds \& Indices
- Probability
- Data
- Expressions, equations and linear relationships
- Trigonometry
- Trigonometric ratios
- Finding unknown angles
- Directions and bearings
- Obtuse angles and exact values
- The sine rule
- The cosine rule
- Area of a triangle
- Quadratic expressions and quadratic equations
- Expanding expressions
- Factorising expressions
- Factorising monic quadratic trinomials
- Factorising non-monic quadratic trinomials
- Factorising by completing the square
- Solving quadratic equations by factorising
- Using quadratic equations to solve problems
- Solving quadratic equations by completing the square
- Solving quadratic equations with the quadratic formula
- Non-linear relationships, their functions and their graphs
- Exploring parabolas
- Sketching parabolas using transformations
- Sketching parabolas using factorisation
- Sketching parabolas using quadratic formula and the discriminant
- Sketching parabolas by completing the square
- Sketching parabolas using the quadratic formulas and the discriminant


## 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 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 noncompletion of assessment tasks.

## Outcomes Assessed

- 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 solid
- MA5.3-15MG
applies Pythagoras' Theorem, trigonometric relationships, the sine rule, the cosine rule and the area rule to solve problems, including problems involving three dimensions
- MA5.3-6NA
- MA5.2-7NA
- MA5.1-13SP
- MA5.2-17SP
- MA5.2-15SP
- MA5.2-16SP
- MA5.3-18SP
- MA5.3-19SP
- MA5.3-5NA
- MA5.3-7 NA
- MA5.3-8 NA
- MA5.3 15MG
- MA5.3-5NA
- MA5.2-6NA
- MA5.3-7NA
- MA5.3-9NA
- MS5.3-4NA A student draws, interprets and analyses graphs of physical phenomenon.

