



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Mathematics
Class Teacher	Mr Saini & Mr Lummis
Head Teacher	Ms Stevenson
Year	9 Stage 5.3
Date Given	Week 3, Term 4
Date Due	Week 5, Term 4
Weighting	35%

Assessment Outline

In class examination – 2 periods (the exam will be broken into two parts to be completed over 2 lessons).

- **Financial Mathematics** - percentages, types of income, taxation, simple interest, compound interest
- **Expressions and Equations** - substitution, adding, subtracting, multiplying and dividing terms, algebraic fractions, solving simple & multi-step equations, inequalities & simultaneous equations
- **Properties of Geometrical Figures** -review of angles & triangles, parallel line properties, angle sum of polygons, scale factor, similar figures, congruent triangles and proving similarity or congruence
- **Indices and Surds**-index notation, positive index laws (multiplying, dividing, the zero index and power of a power), negative and fractional indices, scientific notation, significant figures, simplifying surds, the four operations with surds (adding, subtracting multiplying and dividing)
- **Right Angled Triangles** – Pythagoras' Theorem, using trigonometry to find unknown sides and angles, angles of elevation and depression, bearings
- **Length, Surface Area and Volume**- limits of accuracy, converting units of length, area and volume, perimeter, area, surface area of prisms and pyramids, volume of prisms, surface area and volume of cylinders
- **Linear relationships**- graphing lines, intercepts, gradient intercept form, equation of a line, midpoint, distance, gradient, perpendicular and parallel lines, graphical solutions to simultaneous equations.

Required equipment

- Black or Blue pen or pencil
- Scientific calculator
- Ruler

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.

Outcomes Assessed

- MA5.2 – 4NA: Solves financial problems involving compound interest.
- MA5.3 – 5NA: Selects and applies appropriate algebraic techniques to operate with algebraic expressions
- MA5.2 – 8NA: Solves linear and simple quadratic equations, linear inequalities and linear simultaneous equations, using analytical and graphical techniques.
- 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 triangles are congruent or similar
- MA5.2 – 7NA: Applies index laws to operate with algebraic expressions involving integer indices
- MA5.3 – 6NA: Performs operations with surds and indices
- MA5.2 – 13MG: Applies trigonometry to solve problems, including problems involving bearings
- MA5.2 – 11MG: Calculates the surface areas of right prisms, cylinders and related composite solids
- MA5.3 – 14MG: Applies formulas to find the volume of right pyramids, ~~right cones, spheres~~ and related composite solids
- MA5.3-8NA Uses formulas to find midpoint, gradient and distance on the Cartesian plane, and applies standard forms of the equation of a straight line