



ORANGE HIGH SCHOOL

ASSESSMENT TASK NOTIFICATION

Subject	Mathematics
Topic	Measurement - Algebraic Expressions & Indices
Class Teacher	Stevenson, Kircher
Head Teacher	Stevenson
Year	10 Stage 5.2
Date Given	Term 1 Week 7 – Friday 11/3/22
Date Due	Term 1 Week 9 – Friday 25/3/22
Weighting	10%

Assessment Outline

1 period in-class Google Form Quiz – 30 Multiple Choice Questions

Topics assessed:

Measurement – Converting Units of Length, Area and Volume – Significant Figures – Scientific Notation – Accuracy of Measurement – Pythagoras Theorem – Perimeter – Area of Triangles, Quadrilaterals & Circles – Area of Composite Shapes – Surface Area of Prisms – Surface Area of a Cylinder – Surface Area of Composite Solids – Volume of Prisms – Volume of Cylinders – Volume of Composite Solids

Algebraic Expressions & Indices – Substitution – Four Operations in algebra – Expanding Brackets – Factorising Expressions – Multiplying & Dividing Algebraic Expressions – Adding & Subtracting Algebraic Fractions – Index Laws (multiplying, dividing, brackets & the zero index)

Required equipment

- **Charged Laptop / Device**
- **Calculator**
- **A formula sheet will be provided to every student to use during the examination**

Course Outcomes:

- MA5.2-2WM** interprets mathematical or real-life situations, systematically applying appropriate strategies to solve problems
- MA5.1-9MG** interprets very small and very large units of measurement
- 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
- MA5.2-3WM** constructs arguments to prove and justify results
- MA4-8NA** generalises number properties to operate with algebraic expressions
- MA5.2-6NA** simplifies algebraic fractions, ~~and expands and factorises quadratic expressions~~
- MA5.2-7NA** applies index laws to operate with algebraic expressions involving integer indices

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.