

**YEAR 11 MATHEMATICS
ASSESSMENT TASK
TERM 2, WEEK 1, 2009**

Date: Wednesday, 29th April

Marks: 100

Time Allowed: 1 period

Weighting: 10%

Outcomes Addressed

- Performs routine arithmetic and algebraic manipulations involving surds and simple rational expressions
- Applies appropriate reasoning and justification in a geometric context

Surds, Equations and Inequalities

- Expand and simplify surds
- Rationalise surds
- Solve equations that contain brackets and fractions
- Solve absolute value equations
- Solve exponential equations
- Solve quadratic equations by factorising, completing the square and by using the quadratic formula
- Solve simple linear inequalities
- Solve absolute value inequalities
- Solve quadratic inequalities
- Solve linear equations simultaneously
- Solve linear equations simultaneously
- Solve two equations simultaneously where one is linear and the other is non-linear

Plane Geometry

- Find the value of pronumerals using simple geometric using:
 - straight lines
 - parallel lines
 - triangles

Instructions

- Attempt all questions
- Show all necessary working
- Write in blue pen, black pen or dark pencil
- Approved calculators may be used

NOTE:

- Students who do not achieve the outcome (less than 39%) in this assessment task will receive an 'Official Warning' – non completion of the HSC course.
- Students will be required to re-sit the task within 7 days.
- Students will be given 2 further opportunities to achieve the required outcome.
- Failure to achieve the outcome may result in the student receiving an 'N' determination.