

**YEAR 11 MATHEMATICS  
ASSESSMENT TASK  
TERM 1, WEEK 6, 2009**

**Date: Wednesday, 4<sup>th</sup> March**

**Marks: 100**

**Time Allowed: 1 period**

**Weighting: 10%**

**Outcomes Addressed**

- Performs routine arithmetic and algebraic procedures.

Rational Numbers

- Conversion of terminating and recurring decimals to rational numbers.
- Determination of powers and roots (fractional and negative indices).
- Scientific notation, rounding off, significant figures.
- Evaluating absolute values.

Basic Algebra

- Expanding and collecting like terms including  $(a \pm b)^2$  and  $(a + b)(a - b)$
- Factorisation
  - common factor
  - difference of two squares
  - quadratic trinomials
  - grouping in pairs
  - sum and difference of two cubes
- Operations with algebraic functions

**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 40%) 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.