
ALGEBRA
**Use formulae and equations to solve
problems**

level:	1
credit:	2
planned review date:	November 2003
sub-field:	Mathematics
purpose:	People credited with this unit standard are able to use formulae and equations to solve problems. This unit standard is based on objectives from Level 5 of <i>Mathematics in the New Zealand Curriculum</i> or <i>Tauaki Marautanga Pngarau</i> .
entry information:	Open.
accreditation option:	Evaluation of documentation by NZQA.
moderation option:	A centrally established and directed national moderation system has been set up by NZQA on behalf of the Science and Technology National Standards Body - Mathematics Advisory Group (General Education).

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special notes:

- 1 Learning Programme
This unit standard can be used to assess outcomes of a learning programme based on achievement objectives from *Mathematics in the New Zealand Curriculum* (Learning Media, Ministry of Education, 1992):
 - Algebra (Exploring equations and expressions), Level 4, page 142
 - find and justify a word formula which represents a given practical situation;Algebra (Exploring equations and expressions), Level 5, page 148
 - evaluate linear expressions by substitution;
 - solve linear equations;
 - use equations to represent practical situations;or on *Tauaki Marautanga Pangarau* (Learning Media, Ministry of Education, 1994), Taurangi, Taumata 4 and 5.

The skills of this unit standard are some of those that could satisfy requirements for Unit 5233, *Use mathematical processes and skills in a variety of contexts*.

- 2 Assessment Note
The standard **must** be met for at least two problems in each of: substitution into formulae; solving linear equations.

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It is not expected that students should work with algebraic fractions. Strategies for solving equations such as “guess, check, and improve” are acceptable.

Elements and Performance Criteria

element 1

Use formulae and equations to solve problems.

performance criteria

- 1.1 Method chosen is appropriate to the problem.
- 1.2 Solution is consistent with the problem.

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Comments to:

Science and Technology National Standards Body
- Mathematics Advisory Group (General Education)
Unit Standard Revision
PO Box 160
WELLINGTON

by November 2003.

Please Note: Providers must be accredited by the Qualifications Authority before they can offer programmes of education and training assessed against unit standards.

Accredited providers assessing against unit standards must engage with the moderation system that applies to those unit standards. [Please refer to relevant Plan ref: 0071]