FIELD SCIENCES

Notification of new *Algebra* Level 1 achievement standards 90799 and 90800

Subfield Mathematics

Domain	Id	Subject reference
Algebra	90799	CAS Mathematics 1.1
	90800	CAS Mathematics 1.2

The Ministry of Education and the Secondary Education Group Assessment business unit of NZQA have developed the achievement standards listed above.

Registration date **November 2006**

Planned review date **February 2010**

Summary of development and consultation process

This development was part of the planned cycle for introducing Mathematics achievement standards in association with the Computer Algebraic Systems (CAS) Pilot Project. This project is investigating new ways of teaching Mathematics and has implications for assessment of student achievement in Mathematics. The development was informed by consultation and subsequent feedback from secondary schools, advisers, moderators, and examiners.

Results of development

Two new achievement standards in which students will be permitted to use CAS technology have been developed. The use of this technology is currently not permitted in the other externally assessed Mathematics achievement standards.

- **AS90799 CAS Mathematics 1.1, Demonstrate an understanding of straightforward algebraic strategies**
  This achievement standard is parallel to AS90147, Mathematics 1.1. To align with the use of CAS technology the emphasis is on demonstrating an understanding of straightforward algebraic methods rather than the use of straightforward algebraic methods, as in AS90147.
- **AS90800 CAS Mathematics 1.2, Demonstrate an understanding of the features of graphs**
  This achievement standard is parallel to AS90148, Mathematics 1.2. As CAS technology can sketch the graphs the emphasis is on demonstrating an understanding of features of graphs rather than on sketching graphs, as in AS90148.

Impact on Accreditation and Moderation Action Plan (AMAP)

These achievement standards will be added to AMAP 0226.

Impact of changes on NCEA Exclusions List

AS90799 will be mutually exclusive with AS90147.
AS90800 will be mutually exclusive with AS90148.