

**FIELD            SCIENCES****Revision of *Algebra* Level 1 achievement standards 90147 and 90148**

<b>Subfield</b>	<b>Mathematics</b>	
<b>Domain</b>	<b>Id</b>	<b>Subject reference</b>
Algebra	90147	Mathematics 1.1
	90148	Mathematics 1.2

The Ministry of Education and the Secondary Education Group Assessment business unit of NZQA have revised the achievement standards listed above that were registered in October 2003.

**Date new versions published**

**November 2006**

**Planned review date**

**February 2007**

**Reason for the revision**

The above standards were revised to reflect the introduction of two new Mathematics achievement standards developed in association with the Computer Algebraic Systems (CAS) Pilot Project. The development of the new standards was informed by consultation and subsequent feedback from secondary schools, advisers, moderators, and examiners.

The new achievement standards will permit students to use CAS technology, they are:

- 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 their use, 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.

**Main changes resulting from the revision**

- AS90147, Mathematics 1.1 has been updated to include the following:  
Note: Students cannot use credit for both this achievement standard and AS90799, CAS Mathematics 1.1, towards a national qualification including a National Certificate of Educational Achievement.
- AS90148, Mathematics 1.2 has been updated to include the following:  
Note: Students cannot use credit for both this achievement standard and AS90800, CAS Mathematics 1.2, towards a national qualification including a National Certificate of Educational Achievement.

**Impact of changes on [NCEA Exclusions List](#)**

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

**Impact on existing provider accreditations**

None.

**Impact on Accreditation and Moderation Action Plan (AMAP)**

None.

**Impact on existing qualifications**

None.