

FIELD SCIENCES**Correction to *Mathematics* Level 2 achievement standard AS90286**

Subfield Domain	Mathematics			Level	Credits
	Id	Subject reference	Title		
Calculus	90286	Mathematics 2.3	Find and use straightforward derivatives and integrals	2	4

The Ministry of Education and the Secondary Education Group Assessment business unit of NZQA requested a correction to the achievement standard listed above that was registered in October 2004.

Date version re-published

18 March 2005

Nature of the correction

One of the explanatory notes (EN) in achievement standard AS90286 was worded in a way that was confusing and illogical.

For achievement with merit, the first EN stated that assessment would be based on a selection from the following.

- locating turning points where $f'(x) = 0$ and determining their nature
- finding the equation of a tangent to a curve
- solving rate of change problems (such as kinematics).

However, the second EN gave an example of finding areas under graphs. The problem was that this example was not covered by the items listed in the first EN. This was corrected by placing an item relating to graphs in the first EN and deleting the reference to graphs from the second EN. The revised explanatory notes are set out below.

Achievement with Merit	<ul style="list-style-type: none"> • Apply calculus techniques to solve straightforward problems. 	<ul style="list-style-type: none"> • Assessment will be based on a selection from: <ul style="list-style-type: none"> – locating turning points where $f'(x) = 0$ and determining their nature – finding the equation of a tangent to a curve – solving rate of change problems (such as kinematics) – finding areas (including simple compound areas) under polynomial graphs. • Problems may be in a mathematical context. • Problems will involve polynomials in expanded form. • Interpretation of solutions in context may be required.
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Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

None.