

New Zealand Qualifications Framework Levels 1 – 3, 2011

Mathematics and Statistics

National Moderator's Report

National Moderator’s Report for Mathematics and Statistics

General Guidance for Assessors

The purpose of external moderation is to provide reassurance that teacher judgements are at the national standard and are made on the basis of assessment materials that are fair and valid. All assessment materials are expected to:

- give the student the opportunity to meet the requirements of the standard
- include an assessment schedule that gives evidence of appropriate student responses and clear judgements at all levels.

To help ensure best assessment practice teachers need to access the Subject Resources for Mathematics and Statistics on the NZQA website: **www.nzqa.govt.nz/mathematics**.

The resources on this webpage include:

1. annotated student exemplars
2. clarification documents
3. newsletters - current and archived editions
4. previous national moderator reports
5. a link to the TKI resources

General Comments

Methods

In some of the new Level 1 achievement standards the requirements for Achievement include ‘selecting and using a range of methods in solving problems.’ To be used as evidence, a method must be at the appropriate curriculum level and must be relevant to the solution of the problem. For the ‘methods’, rounding with decimal places and significant figures in 91026 and metric units in 91030, it is likely that there will need to be a holistic judgement on the evidence based on an understanding of rounding and units across the entire task.

Assessment schedules

In assessment schedules that are being written for tasks assessing the new standards the evidence for Merit and Excellence needs to stand alone. It is not appropriate for Merit to be ‘Achieved plus’ and excellence to be ‘Merit plus’. There needs to be holistic judgements on the evidence that is presented with the assessor judgements for each grade level based on qualitative differences in achievement.

Conditions of Assessment

The Conditions of Assessment document <http://legacy.tki.org.nz/e/community/ncea/conditions-assessment.php> contains additional information about the assessment of each new internal achievement standard.

Specific standards

91036

Achievement standard 91036 requires students to be involved in planning the investigation and collecting their own data. The plan needs to include information about what will be measured, how it will be measured and the decisions about ensuring consistency in the process of taking the measurements (managing sources of variation).

For the Statistics standards 91035 and 91036, students need to provide evidence of each component of the statistical enquiry cycle that is detailed in EN3 of the standard. For 91038, there needs to be evidence of the experimental probability process detailed in EN3.

The National Moderator reports will be replaced by newsletters and clarifications documents from 2012.