



## NCEA Level 3 Mathematics and Statistics

### Conditions of Assessment

#### General Information

<b>Subject Reference</b>	Mathematics and Statistics
<b>Domain</b>	Algebra, Trigonometry, Geometry, Statistics, Probability
<b>Level</b>	3

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**NB:** It is expected that teachers are familiar with additional generic guidance on assessment practice in schools published on the [NZQA](#) website. This should be read in conjunction with these Conditions of Assessment.

#### For All Standards

Assessment tasks are designed so that each task provides opportunity for students to provide evidence for all grades. There are not separate tasks for each grade. Holistic decisions will be used in the awarding of a grade by reference to the achievement criteria in the standard.

Many of the standard titles use the wording “...*in solving problems*”. It is important to note that acceptable evidence could come from a partially successful solution to a problem. Communication of the process of solving a problem may yield the required evidence of thinking, even though a correct final solution to the problem is not obtained.

Internal assessment provides considerable flexibility in the collection of evidence. Care must be taken to allow students opportunities to present their best evidence against the standard that is free from unnecessary constraints. Collection of evidence for these standards could include, but is not restricted to, an extended task, an investigation, or a more formal activity.

Students are expected to have access to appropriate technology. For statistics standards this would include statistical software.

Authenticity will be assured. For example for an investigation carried out over several sessions, this could include teacher observations or the use of milestones such as meetings with students, or journal entries of progress etc.

## Specific Information for Individual Internal Achievement Standards

<b>Achievement Standard Number</b>	<b>91580 Mathematics and Statistics 3.8</b>
<b>Title</b>	Investigate time series data
<b>Number of Credits</b>	4
<b>Version</b>	1

***NB: It is important to read the section “For All Standards” at the start of this document.***

Assessment of this standard involves an investigation. Sufficient time should be allowed for students to complete the investigation.

Students use a time series data set containing multiple variables. This allows students to select a variable of interest to investigate. Students could also create a new variable to investigate using variables from the data set. While students may investigate more than one time series this is not a requirement of the standard.

The data set may either be provided by the teacher or students could source an appropriate data set.

Background information related to the data set is to be provided to the student and the context should be one that is accessible and able to be understood by the students. This background information should be provided in advance to allow time for students to research the context to gain that understanding. Students should be sourcing relevant contextual knowledge about the situation under investigation from places such as the internet, the school or local library, newspapers and magazines. These sources should be referenced in their report.

If the student has sourced their own data they need to find their own background information and familiarise themselves with the context. They should acknowledge the data source if this is the case.

A further assessment opportunity needs to involve a new data set.