



Rangi Ruru
Girls' School

LEVEL 3 TAUANGA STATISTICS Programme of Learning 2025

Welcome to Level 3 Statistics. This is a full year course in which you will engage with both descriptive and inferential Statistics. You will have the opportunity to gain up to 20 Level 3 credits for your NCEA, with 3 Achievement Standards (12 credits) internally assessed, and the remainder assessed by external examination at the end of the year.

In this course you will learn to:

- Pose purposeful questions that can be answered using statistical methods.
- Manage and manipulate data sets.
- Analyse patterns in data using Time Series, Bivariate, and Inference methods.
- Evaluate statistical claims and the robustness of studies.
- Explore a range of distributions used to model situations involving probability.

Teaching and learning experiences will include individual, pair, and group activities. You will engage with both manufactured and real-world data sets to learn and apply different methods of analysis. You will be encouraged to think critically about the context surrounding a data set and pose possible causes for data features. Strong literacy skills, research skills, and an awareness of current affairs will allow you to engage more effectively with this aspect of the course. Finally, through consistent practise you will learn about five common probability distributions and the myriad of situations they can model.

Topic Order and Approximate Timing

	Topic	AS	Time	Assessment
TERM 1	3.8 Investigate time series data	91580 4 credits	6 wks.	Internal Week 6
	3.9 Investigate bivariate measurement data	91581 4 credits	4 wks.	
TERM 2	3.9 Investigate bivariate measurement data (<i>continued</i>)	91581 4 credits	2 wks.	Internal Week 2
	3.14 Apply probability distributions in solving problems: Tri, Uni, Bin Interleave starters from here	91586 4 credits	2 wks.	External
	3.10 Use statistical methods to make a formal inference	91582 4 credits	5 wks.	Internal Week 9
TERM 3	3.14 Apply probability distributions in solving problems (<i>continued</i>)	91586 4 credits	4 wks.	External
	School Exam - 1.5-hour exam for 91586		In wk. 5	
	3.12 Evaluate statistically based reports	91584 4 credits	4 wks.	External
TERM 4	3.12 Evaluate statistically based reports (<i>continued</i>)	91584 4 credits	3 wks.	External – Derived Grade test Week 2
	Final Examination for 91584 and 91586			Thursday 13 th November (am)
	<i>Scholarship examination covering ALL Y13 Statistics standards</i>			<i>Tuesday 4th November (pm)</i>

Assessment

General information about school policies and procedures for assessment is available on the Student Hub. It is important that you are aware of the school policies about assessment. Further information pertaining to each individual assessment will be given to you in the week prior to the assessment start date. If you are in doubt about anything, please ask your teacher. It is **your** responsibility to be well informed about any assessment requirements.

The plan above gives a **general indication** of the timing of assessments, but you will be given at least one week's notice of the exact day and time of a final assessment for the Internal Achievement Standards. Note dates and times carefully in your diary and discuss any problems with timing with your teacher in advance.

School examinations

The school examination in Term 3 is a useful practice for the real examination in November. The grades obtained in the school examinations contribute to subject placing and are also used for derived grades.

An assessment for Evaluate Statistically Based reports in Term 4 will generate a derived grade for that paper.

Checking and recording your results

Marking will be done carefully and checked, but there is always a possibility of an error. After an assessment, you will have an opportunity to check your results. *During this time, you must not mark your assessment in any way, or take it out of the room.* If you disagree with the marking you can ask your teacher to check the marking. If you are not satisfied at this stage, then there is an appeal procedure.

When a result for an internal or a school examination result has been checked you should record it on your own progress record in your handbook, so that at a later date you can check and sign the assessment record kept on the school database. Internal results or derived grades will then be sent to NZQA directly.

Assessed work for the internal standards will be stored at school.

Stationary Required

Students will be **required** to have the following items for this course:

- Ring Binder/Clear file/Equivalent
- Laptop with Microsoft Excel downloaded
- Graphics Calculator Casio fx 9750GII or fx 9860
- Refill or a 1B5 exercise book
- Pens, Pencils, and highlighters

Student Workbooks will be ordered throughout the year and charged upon distribution.



Rangi Ruru
Girls' School

Level 3 Statistics Standards 2025

Achievement Standard Number	Version Number	Title	Mode of Assessment	Credits
91580 3.8	v2	Investigate time series data	Internal	4
91581 3.9	v2	Investigate bivariate measurement data	Internal	4
91582 3.10	v2	Use statistical methods to make a formal inference	Internal	4
91586 3.14	v2	Apply probability distributions in solving problems	External	4
91584 3.12	v2	Evaluate statistically based reports	External	4