

# Cambridge A2 Mathematics Paper (Statistics 2)

This paper (statistics 2) is combined with pure 3 to make up half of the full A level course. The first half was completed in Year 12 (AS level). The weighting of this years' papers are 60% pure and 40% statistics. For the overall A level grade the following weightings apply. In order to take this course a satisfactory result is required in the AS course.

Pure 1	30%
Stats 1	20%
Pure 3	30%
Stats 2	20%

The topics covered this year will be complemented with NCEA work that is not in the A2 course.

The topics to be covered (not necessarily in this order) are

Poisson	A2
Modelling Data	NCEA internal
Linear combinations of random variables.	A2
Continuous Random Variables	A2
Bivariate data	NCEA internal
Sampling and estimation	A2
Time series analysis	NCEA internal
Hypothesis tests	A2
Numerical Methods	NCEA external
Basic probability revision	NCEA external
Probability Distributions Revision	NCEA external

Assessment will be by topic tests a mid year and end of year examination.

## **Internally Assessed Achievement Standards**

3.7 Modelling and Curve Fitting	Week 7,	Term 1
3.1 Time-Series	Week 7	Term 2
3.5 Regression Project	Week 9,	Term 3

## **Externally Assessed Achievement Standards**

- End of topic tests will be used to gain information in the case of compassionate considerations.