



HSC Mathematics 2018

Assessment Notification:

HSC TASK 1 (Year 11/12)

Task Date: Term 4 Week 9 Thursday 13/12/2018

Notification Date Tuesday 27/11/2018

The Task: There are two components of the task.

Component 1 – In class test

Component 2 – Pre-prepared summary sheet.

Notes

You must prepare a pre-prepared summary sheet (2 marks). This is to be hand-written on A4 paper (both sides of the paper may be written on). This summary sheet may be used in the in-class test, and needs to be handed in for marking at the conclusion of the test.

The test will consist of some “seen” and some “unseen” or unfamiliar questions. The “seen” questions will come from the attached list of questions.

You will be provided with the NESA approved Reference sheet for Mathematics and Mathematics Extension 1, which you may use during the test.

You may use a scientific calculator for all sections of the test.

Duration: 50 minutes.

Assessment Weighting: 15%

Content: Probability, Locus and the Parabola, The Quadratic Function, Introduction to Calculus, Other topics as required.

Outcomes to be assessed include:

H1 seeks to apply mathematical techniques to problems in a wide range of practical contexts.

H5 applies appropriate techniques from the study of calculus, (geometry), probability, (trigonometry), and (series) to solve problems.

P6 relates the derivative of a function to the slope of its graph

P7 determines the derivative of a function through routine application of the rules of differentiation.

Recommended preparation:

Preparation of an A4 summary sheet – written on both sides.

Completion of the practice questions provided in the attached list. Note some of these will be in the test.

“Test Yourself” Chapter summaries from the text books

Preliminary: Chapters 8, 9 and 10

HSC: Chapter 8

Challenge exercises from the relevant Chapters in the text books.