



HSC Mathematics Extension 1 2018

Assessment Notification:

HSC TASK 1 (Year 11/12)

Task Date: Term 4 Week 9 Monday 10/12/2018

Notification Date Monday 26/11/2018

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 NESAs 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: Mathematical Induction, Trigonometry, Trigonometry in 3 dimensions, Sums and differences of angles, Angle between 2 lines, Angle between 2 curves, Dividing intervals into ratio, Permutations and Combinations, Polynomials, Harder Mathematics content, Assumed Preliminary Content.

Outcomes to be assessed include:

HE1 appreciates interrelationships between ideas drawn from different areas of mathematics

HE 7 evaluates mathematical solutions to problems and communicates them in an appropriate form

PE3 solves problems involving permutations and combinations, (inequalities), polynomials, (circle geometry) and parametric representations.

PE2 uses multi-step deductive reasoning in a variety of contexts.

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 6, 7 and 8

HSC: Chapter 8

Challenge exercises from the relevant Chapters in the text books.