

# Assessment Task Notification

RESPECT | RESPONSIBILITY | PERSONAL BEST



Faculty: Maths	Course: Mathematics Extension 1	Time allowed: 60 minutes
Teacher: Mr Turner	Email: justin.turner21@det.nsw.edu.au	
Task number: 1	Title: In-class test with summary sheet	
Year: 11	Due date: Tuesday 25 <sup>th</sup> March (week 9)	Weighting: 35%

## Syllabus outcomes assessed:

**ME11-1** uses algebraic and graphical concepts in the modelling and solving of problems involving functions and their inverses

**ME11-2** manipulates algebraic expressions and graphical functions to solve problems

**ME11-5** uses concepts of permutations and combinations to solve problems involving counting or ordering

**ME11-6** uses appropriate technology to investigate, organise and interpret information to solve problems in a range of contexts

**ME11-7** communicates making comprehensive use of mathematical language, notation, diagrams and graphs

## 21<sup>st</sup> Century and employment related skills:

<input checked="" type="checkbox"/>	Communication	<input type="checkbox"/>	Use of technology
<input checked="" type="checkbox"/>	Critical Thinking	<input type="checkbox"/>	Self-reflection and refinement
<input checked="" type="checkbox"/>	Creativity	<input checked="" type="checkbox"/>	Problem Solving
<input type="checkbox"/>	Collaboration	<input type="checkbox"/>	Initiative and Enterprise
<input type="checkbox"/>	Planning and Organising	<input type="checkbox"/>	Cross-Cultural Understanding

## Task description:

Students will undertake an in-class test on the topics of:

- Working with Combinatorics (Chapter 3)
- Inequalities (Chapter 2 and 4 – Extension content only)

Students will be permitted to bring in a double-sided A4 page with their own summary notes. These notes must not be plagiarised and must be handwritten and will be collected at the conclusion of the assessment. These summary notes will not be assessed.

## Assessment criteria:

You will be assessed on your ability to:

- Interpret problems and use mathematical knowledge and skills to obtain realistic solutions.
- Show detailed, and appropriate, working out to support solutions.
- Successfully perform routine arithmetic and algebraic manipulations.

## Method of task submission:

- In-class assessment which will be collected at the end of the test period.

**Marking guidelines:**

<b>Grade</b>	<b>Descriptor</b>	<b>Mark %</b>
<b>A</b>	Accomplishes the task, interprets problems and uses mathematical knowledge and skills to obtain realistic solutions at a high level. All relevant working out is presented in a detailed and appropriate manner. Successfully performs routine arithmetic and algebraic manipulations to a high degree of accuracy.	85-100%
<b>B</b>	Task accomplished but interprets problems and uses mathematical knowledge and skills to obtain realistic solutions. All relevant working out is presented in an appropriate manner. Successfully performs routine arithmetic and algebraic manipulations to a substantial degree of accuracy.	65-84%
<b>C</b>	Task accomplished, but there are minor flaws in diagrams, descriptions and calculations. Interprets problems and uses mathematical knowledge and skills to obtain realistic solutions. Most working out is presented in an appropriate manner. Performs routine arithmetic and algebraic manipulations to a satisfactory level of accuracy.	45-64%
<b>D</b>	Substantial progress towards completing the task, but interprets problems and uses mathematical knowledge and skills to obtain realistic solutions at a basic level. Some relevant working out is presented in an appropriate manner. Attempts to perform routine arithmetic and algebraic manipulations to some degree of accuracy.	30-44%
<b>E</b>	Attempt at task makes some progress, but requires guidance to interpret problems and use mathematical knowledge and skills to obtain realistic solutions. Basic working out is presented. Attempts to perform routine arithmetic and algebraic manipulations.	1-29%
<b>N</b> <b>(Stages 5 and 6)</b>	Task has not been attempted.	0%