



# Nepean Creative & Performing Arts High School

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## ASSESSMENT TASK COVER SHEET

**Course Name: Mathematics General 2 HSC**

**Assessment date: Term 1 (Weeks 8 – 9)**

**Assessment Task Number: 2**

**Assessment Task Title: Half-Yearly Examination**

**Assessment Weighting: 30%**

**Total Marks Allocated to this task: 62 marks**

### Task Description

The Task will consist of a written examination paper of 1 hour and 55 minutes duration (plus 5 minutes reading time) containing two sections with a total mark value of 62 marks. All questions on the examination are compulsory.

***A formula sheet will be provided with the examination paper.***

In addition to basic examination equipment a pair of compasses, set squares, a protractor and a mathematical curve-drawing may be used.

### Things you need to KNOW to complete this task:

Content	<b>Textbook: New Century Maths (12 Mathematics General 2 HSC Course – 3<sup>rd</sup> Edition)</b>  DS4 – Interpreting Sets of Data (Chapter 4) FSHe1 & FSHe2 – Body Measurements and Medication (Chapter 8: 8-01 to 8-06) AM4 – Modelling Linear Relationships (Chapter 2: 2-07 to 2-10) MM5 – Applications of Trigonometry (Chapter 5)
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## Things you need to DO to complete this task:

Step	Things I will do	What I will see as a result
1		
2		
3		
4		
5		

## My Assessment Task Planner:

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14

## Outcomes to be Assessed:

- MG2H-1 uses mathematics and statistics to evaluate and construct arguments in a range of familiar and unfamiliar contexts
- MG2H-2 analyses representations of data in order to make inferences, predictions and conclusions
- MG2H-3 makes predictions about situations based on mathematical models, including those involving cubic, hyperbolic or exponential functions

- MG2H-4 analyses two-dimensional and three-dimensional models to solve practical problems, including those involving spheres and non-right-angled triangles
- MG2H-5 interprets the results of measurements and calculations and makes judgements about reasonableness, including the degree of accuracy of measurements and calculations and the conversion to appropriate units
- MG2H-7 answers questions requiring statistical processes, including the use of the normal distribution, and the correlation of bivariate data
- MG2H-8 solves problems involving counting techniques, multistage events and expectation
- MG2H-9 chooses and uses appropriate technology to locate and organise information from a range of contexts
- MG2H-10 uses mathematical argument and reasoning to evaluate conclusions drawn from other sources, communicating a position clearly to others, and justifies a response.

### Assessment Marking Guidelines

Students are reminded that it is important to show process for your work. Showing working will enable students to maximise their opportunities to gain marks.

#### NEWMAN'S QUESTION PROMPTS TO ASSIST YOU TO RESPOND TO PROBLEMS

Newman's Prompts	Example Question
1. Read the question	If 11% of the food bill was \$77, how much is 25% of the food bill?
2. What is the question asking you to do?	Find 25% of the food bill.
3. How are you going to find the answer?	Find 1% first. Divide by 11 to find the value of 1%. Multiply by 25 to find the value of 25%.
4. Do the working out	$77 \div 11 = 7$ 1% is \$7 $7 \times 25 = \$175$
5. Write the answer to the question	25% of the food bill is \$175